
SAINT
MICHAEL'S
COLLEGE
1992-1993
CATALOGUE



SAINT MICHAEL'S COLLEGE
WINOOSKI PARK
COLCHESTER, VERMONT 05439

1992—1993 ACADEMIC CALENDAR

FALL SEMESTER 1992

August 29-31
 New Student Orientation
August 31
 Upperclass Registration
September 1
 Classes for All
September 6
 Opening Mass
September 7
 Labor Day
 Classes as usual
September 9
 Last day for course changes
September 25
 Academic Convocation
 Classes canceled between 1:50 and
 5:00 p.m.
October 12-13
 Holiday
October 16
 Last day for making up I grades from
 Summer Session and Spring
 semester
 Quarterly reports Due
October 23
 Last day for withdrawing from
 courses without penalty.
November 25
 Thanksgiving recess begins at
 11:50 a.m.
November 30
 Classes resume
December 11
 Last day of classes
December 12-13
 Study Days
December 14-19
 Final Exams

SPRING SEMESTER 1993

January 10
 Registration
January 11
 Classes for all
January 19
 Last day for course changes
February 19
 Last day for making up I grades from
 Fall semester
 Quarterly reports due
 Winter recess begins after last class
March 1
 Classes resume
March 5
 Last day for withdrawing from
 courses without penalty
April 8
 Easter recess begins after last class
April 13
 Classes resume
April 26
 Last day of classes
April 27
 Study Day
April 28-May 1
 Final Exams
May 2
 Study Day
May 3-4
 Final Exams
May 8
 Baccalaureate Mass
May 9
 Commencement
SUMMER SESSION, 1993
 Term I - May 17-June 25
May 24
 Memorial Day Holiday
Term II - June 28-August 6

Saint Michael's College

COLLEGE CATALOGUE

1992-93

WINOOSKI PARK • COLCHESTER • VERMONT • 05439

St. Michael's College

Winooski Park

Colchester, Vermont 05439

Admission Office Telephone 802-654-3000

Other Campus Offices Telephone 802-654-2000

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Saint Michael's is accredited by the New England Association of Schools and Colleges. The College is a member of the American Council on Education, the National Association of Independent Colleges and Universities, the Association of American Colleges, the National Catholic Educational Association, the College Entrance Examination Board, the New England Colleges Fund, the Vermont Higher Education Council and the Association of Vermont Independent Colleges.

Saint Michael's believes...and practices ...nondiscrimination. It does not, and will not in the future, discriminate against applicants for admission or for employment, students or employees on the basis of race, national or ethnic origin, color, religion, age, sex or handicap.

Saint Michael's reserves the right to change various prices and policies without prior notice. The College will, however, make every effort to notify schools, students and prospective students of significant changes.

SAINT MICHAEL'S COLLEGE STATEMENT OF MISSION

Saint Michael's College, founded in 1904 by the Society of Saint Edmund and conducted under its auspices, is an independent non-profit educational institution chartered by the State of Vermont. The College is a Catholic institution of higher education in the liberal arts tradition. The mission of Saint Michael's College is to contribute to the development of human culture and enhancement of the human person in the light of the Catholic faith.



Saint Michael's College strives to be an academic community which promotes the pursuit of truth, the development of virtue, and high levels of excellence in all its academic, social and religious programs with a view to bettering the human condition. The College endeavors to conduct its various programs in accordance with policies that are consistent with the principles of the Catholic faith, especially those of truth, justice and charity, and to promote these principles, in fulfillment of its mission, throughout the world. Saint Michael's College seeks to enrich the knowledge of Catholicism in its various dimensions and in relationship to various disciplines and fields of knowledge, and to promote the moral and spiritual development of the entire College community.

COLLEGE HISTORY

SAINT MICHAEL'S COLLEGE: ITS DEVELOPING TRADITIONS

THE VERMONT TRADITION

The College was founded in 1904 in Winooski Park, Vermont, by The Society of Saint Edmund (Edmundite Fathers and Brothers), who had come to the United States in the late 19th century after having experienced religious persecution in France. The choice of the Green Mountain State as a place to minister to the educational needs of God's people has proved to be most fortunate, as the attractive Vermont campus of Saint Michael's is now one of its most important characteristics.

Although Saint Michael's experienced steady growth, by World War II it had reached an enrollment of only 250 students. It was after the Second World War, however, with the return of military veterans, that Saint Michael's College, like other institutions of higher learning, expanded dramatically. Enrollment soon increased to 1,145 students; barracks were acquired from nearby Fort Ethan Allen to accommodate the sudden expansion. What for a time appeared a bit like a military installation was, in fact, a healthily developing college, which was becoming ever better known and respected.

Gradually the military look disappeared, to be replaced by an array of fine brick buildings, all enhancing educational opportunities at Saint Michael's: Cheray Science Hall in 1949, Saint Michael the Archangel Chapel in 1965, the Durick Library in 1968, the Ross Sports Center in 1973, the McCarthy Arts Center in 1975, and the Bergeron Education Center in 1979. Dedicated in 1987 was Saint Edmund's Hall, a most impressive academic center that includes classrooms and faculty offices for most departments and laboratories for psychology and journalism. Saint Edmund's was creatively designed to connect with Cheray Science Hall and Jemery Hall, thus forming an attractive courtyard. A major addition to the library in 1992 will add to the tradition of an attractive and functional campus in a beautiful Vermont setting.

In 1964, Saint Michael's acquired a North Campus when it received from the federal government buildings and land at Fort Ethan Allen, about one mile from the Main Campus. With the construction of Saint Edmund's Hall, however, all academic programs, including the International programs, have been consolidated on the Main Campus. There remains a small student residential community on the North Campus. The dorms, houses and popular townhouses, along with the other facilities, give Saint Michael's its character as a residential Vermont community.

THE LIBERAL ARTS TRADITION

Over the years, Saint Michael's College has not wavered from its original commitment to the liberal arts. A program of studies known as the *Saint Michael's Plan* was developed at the College in the years following World War II featuring a core of required courses in philosophy, theology, English, humanities, and the sciences. This program also required students to concentrate in one subject, but allowed for a number of elective courses. The goal of the *Saint Michael's Plan* was to develop well-educated and highly principled graduates.

In 1971, the *Saint Michael's Plan* was changed. The core curriculum was discontinued, and in its place students were allowed to elect a certain number of courses from specified areas of study. The College remained dedicated to a liberal arts education, since the disciplines represented in the core curriculum were also represented in this new distribution requirement. Further change took place in 1982, when a restructured core curriculum was instituted, and in 1991, when some important elements were added.

Saint Michael's College in 1992 changed its degree requirement to specify the number of credits needed for graduation rather than the number of courses. This permitted the offering of courses with varied credit value. Courses with greater breadth and depth, for example, justify four credits rather than the three which had been the standard in the past; students in some semesters take four rather than five courses.

The changes in the curriculum have all taken place with a view to achieving the goal of effective teaching and learning in a liberal arts tradition. The focus on teaching, with close student-faculty relationships, has remained through the years a strong feature of the academic program at Saint Michael's.

In recent years the academic program has been further strengthened with courses providing a global perspective, which is reinforced at Saint Michael's by the enrollment of a significant number of students from around the world. Multicultural perspectives are also being increasingly emphasized within the academic program.

THE CATHOLIC TRADITION

Saint Michael's College continues and seeks to further strengthen its tradition as a Catholic college. This is a tradition in which members of the Society of Saint Edmund have been joined by laymen and laywomen imbued with Judeo-Christian faith and values. The Board of Trustees is composed of ten members of the Society of Saint Edmund and twenty laypersons. The Chairman of the Board is the Superior General of the Society. Three laymen have served as President of the College from 1969 to the present.

The Catholic tradition is carried on by Edmundites and laypersons in the religious studies, theology, philosophy and other academic programs and in the Campus Ministry program. In addition to liturgies, which are generally well attended, the Campus Ministry program sponsors a number of volunteer service programs in which a large number of students become involved in issues of peace and justice. The College attempts to conduct all its activities in accordance with principles of the Catholic faith.

The Board of Trustees has recently reaffirmed the Catholic mission of the College, which is carried out in an ecumenical manner. The College welcomes students of any faith; approximately 15-20% of the students are not Catholic. Faculty and staff, regardless of personal religious affiliation, contribute to the mission of the College to promote Christian values within the College community and in the world.

A TRADITION OF COMMUNITY

People observing Saint Michael's College often comment on the College's fine community spirit. In fact, the close community is one of Saint Michael's strongest traditions. A survey of new students indicated that 97% of the respondents were drawn to Saint Michael's because of "the relatively small size of the College, allowing for close relationships among students and staff." The College does not plan to grow beyond its present enrollment of about 1,650 students. What is most important is that

Saint Michael's is known as a *caring* community, and this is evident in faculty-student relationships, as well as in many opportunities for guidance through Campus Ministry, the Student Resource Center and other student life offices. The College's volunteer programs in the wider community inspired President George Bush in 1990 to identify Saint Michael's as a *point of light*, the first college in the nation to be so named.

Saint Michael's is unusual among colleges in the degree to which parents of current students are brought into the College community. Over 160 parents actively support the College through the Parents Admission Association and the Parents Fund Committee. They assist the Office of Admission in contacts with prospective students and their parents, and the Development Office with the Parents Fund.

The alumni of Saint Michael's College continue to be valued members of the Saint Michael's family. For many, close ties to the College are furthered as younger brothers and sisters, nephews or nieces and eventually their own sons and daughters enroll as students. The Alumni Admission Association actively assists the Office of Admission in a variety of ways.

The four traditions taken together give Saint Michael's its distinctive identity. They contribute to the positive personal and academic experience of students and continue to attract prospective students to the College.

THE ADMISSION OF STUDENTS

REQUIREMENTS

Some of the guides or indicators considered are: standing in graduating class; grades; the recommendations of counselors and teachers; and scores on the Scholastic Aptitude Test (SAT) administered by the College Entrance Examination Board (CEEB) or on the American College Test (ACT). Achievement tests are not required. Applicants must have completed a minimum of 16 units of college preparation in English, mathematics, the natural sciences, foreign languages, and social studies. Certain majors may have more specific requirements.

Approximately 2,000 freshman applications were received for September of 1991. Of these applicants, about 1,300 students were offered admission. The students who enrolled averaged in the top 30% of their high school graduating class. The average verbal SAT score for enrolled students was 483 and the math score was 522. The middle 50% of enrolled students scored between 445 and 594 on the verbal section of the SAT and between 482 and 594 on the math section.

These statistics have been provided in order to help applicants determine how they stand academically in relation to the students currently enrolled at Saint Michael's College. One strong word of caution: averages can be misleading. A student with a higher SAT score may not be accepted because of a high school record indicative of very poor effort on the student's part. Conversely, an applicant with a deficient SAT score and an outstanding high school record may be admitted.

The interview is not formally used as a criterion in the admission decision. However, the interview can be an excellent means for applicants to determine if Saint Michael's College is the appropriate academic setting. Through the interview process applicants can learn a great deal about Saint Michael's College, and vice-versa. Interested students are strongly encouraged to visit campus, talk with students and faculty, and discuss educational goals with an admission officer.

If a student is unable to visit the campus for an interview, an alumni interview in the hometown area may be arranged. Please call the Office of Admission to make plans for such an interview.

Saint Michael's College supports the efforts of secondary school officials and governing bodies to have their schools achieve regional accredited status to provide reliable assurance of the quality of the educational preparation of its applicants for admission.

TRANSFER ADMISSION

Students seeking to transfer to Saint Michael's College must be in good standing, academically and otherwise, at the institution they have previously attended. Credit may be transferred for work completed at accredited colleges with a grade of C- or better, provided that the courses correspond to offerings at Saint Michael's. Credits are considered for transfer only if an official transcript of such credits is submitted by the applicant prior to admission. A transfer student may be required to pass an examination to determine his/her readiness to enter a course or program. No advanced standing is officially recorded by the registrar until the transferred student has successfully completed one full year at Saint Michael's College. The remaining requirements to be fulfilled by transfer students to qualify for graduation from Saint Michael's will be determined on an individual basis.

All students who transfer must be in residence at least one full year preceding their graduation. They must earn a minimum of thirty credits at Saint Michael's College.

Approximately 182 applications for transfer were received for September, 1991; of those applications, 118 were offered admission.

DEFERRED ADMISSION

Students who have been accepted for admission to Saint Michael's may request that their enrollment be postponed for up to one year. A \$300 non-refundable registration deposit is required to reserve this place at the College. A letter of intent to enroll must be received by the Dean of Admission by October 1 for the Spring semester or May 1 for the Fall semester. Students who defer their enrollment beyond one year forfeit their registration deposit and must formally reapply for admission.

INTERNATIONAL STUDENT INFORMATION

Saint Michael's College has been actively involved in the education of international students for nearly forty years. During this time students from over fifty countries have earned their undergraduate degree here. Our current undergraduate population includes international students from twenty-five different countries.

International students whose native language is not English are asked to take the Test of English as a Foreign Language (TOEFL). Information on this test may be obtained at United States embassies and consulates or by writing directly to TOEFL, Educational Testing Service, Princeton, New Jersey 08541, USA. Students applying to the undergraduate program must also submit an application as well as official academic records from all secondary schools and colleges attended.

There are two ways for international students to pursue an undergraduate degree at Saint Michael's College. First, if students receive a score of 500 or better on the TOEFL and have demonstrated acceptable academic achievement, they may be considered for full-time admission to the undergraduate program. Second, for students who may need to improve their language skills, Saint Michael's offers an undergraduate Associates Program that provides specialized classes emphasizing

English as a second language. Students who demonstrate the required level of academic achievement and English proficiency while in the Associates Program will have the option of entering the degree program.

Financial aid is generally not available to international students. International students must submit evidence of financial support for their educational and living expenses while at Saint Michael's College.

INTERESTED IN ADMISSION?

The next step is to complete and send in the application form, available from the Office of Admission, and the application fee of \$30. Upon receiving these we will begin to process the application. **Applications for the Fall semester are reviewed on a continuous basis beginning in the previous December. Applicants for admission are urged to complete the process prior to the March 15 financial aid application deadline.**

Applicants should have high school transcripts and SAT or ACT scores forwarded to this office at the address below. When an application is received an acknowledgment is sent. If that acknowledgment is not received in a reasonable amount of time, applicants should contact the Office of Admission by phone or letter.

Each application for admission is reviewed by an admission committee comprised of faculty members, the Dean of the Undergraduate College and the Dean of Admission.

A limited number of spaces may be available at the beginning of the spring semester. **Applications for the spring semester should be in by November 1.**

Saint Michael's subscribes to the Candidate's Reply Date Agreement, allowing applicants until May 1 to make their decision about attending. For an additional application or information, please to write or call:

Dean of Admission

Saint Michael's College

Winooski Park

Colchester, Vermont 05439

802-654-3000

Main Number — 802-654-2000

For those who plan to visit the campus, the Office of Admission hours are Monday through Friday, 9:00 a.m. to 4:00 p.m., and Saturday morning by appointment only. The Office of Admission is not open on Sunday. *Please call to make an appointment.*

THE ACADEMIC PROGRAM

ACADEMIC EXCELLENCE . . . THE TEACHING TRADITION

"Flowing naturally from the goal of student learning and personal development, there has been at Saint Michael's, since its early days, a strong teaching tradition. It is a tradition which has extended well beyond the classroom to encompass also the efforts of faculty and other dedicated academic staff, those involved in the various areas of student activities and services and, in effect the entire College community. The close contact with faculty and staff as they attend to the educational needs of individual students is perhaps the single most important attraction of Saint Michael's for prospective students. It is clearly the item most commented upon by alumni as they recall their Saint Michael's experiences.

Academic excellence also requires a well-qualified faculty and one committed to the enhancement of student learning. Even the names of buildings at Saint Michael's commemorate a tradition of excellent teachers: Hamel, Linnehan, Durick, Sullivan. At this time, however, the academic qualifications of the faculty of Saint Michael's have never been greater. With the growing reputation of the College, a good market for faculty in most fields, and competitive levels of compensation, Saint Michael's has been able over the past decade to add highly qualified faculty to join its longer term teaching faculty. An increasing proportion of the faculty have the necessary qualifications and the orientation to be teaching scholars in their respective fields. In this they have several excellent models among the longer-term faculty. The tradition of a teaching faculty at Saint Michael's continues; student learning is being well served." (From "Saint Michael's College, Its Academic Tradition," *Annual Report* 1991, by Dr. Paul J. Reiss, President.)

THE LIBERAL STUDIES CURRICULUM

Saint Michael's College Statement of Mission affirms the commitment of the College to provide a liberal education in light of the Catholic faith and its developing tradition. This commitment influences all activities of the College especially its curriculum. The curriculum should strive to develop not only the mental capacities of the students, but also the development of virtue and good character by permeating the activity of teaching with Christian ideals and the teaching of the Gospel. Thus the College strives to carry out the tradition of liberal education which "has always sought the formation, not only of the intelligent person, but of the good person." (from the College's *Statements of Mission and Goals*).

The Saint Michael's College Liberal Studies Curriculum reflects the Mission Statement of the College and is consistent with the desire to develop a community of persons striving for personal fulfillment and dedicated to the pursuit of justice for the common good.

The Liberal Studies Curriculum is based on four basic principles, listed below:

I. Enhancement of Citizenship

The Liberal Studies courses should prepare students at Saint Michael's to be responsible citizens in the larger community. Civic excellence requires students to become aware of the civic humanist tradition(s) of the West, as well as the traditions of other cultures. The Saint Michael's Curriculum must empower its women and men to participate constructively in society and its institutions. Citizens of the 21st century

will be called upon to meet the challenges of the emergence of an increasingly integrated global community.

II. Appreciation and Cultivation of the Arts and Sciences

Students should develop an understanding and appreciation of the intrinsic value of the liberal arts and sciences. The Liberal Studies courses should promote a respect for the learning process, including an awareness of the various requirements of scholarship in religious studies, philosophy, natural science, mathematics, social science, humanities and fine arts.

III. Critical Thinking and Communication

The Liberal Studies courses should promote the ability to think critically and to communicate thoughts in a clear and persuasive fashion. Both critical thinking and communication are necessary for the exercise of responsible citizenship, and both are needed to appreciate and participate in the dialogues that occur within the liberal arts, sciences and fine arts. Critical thinking and communication are not exclusively the province of any particular course or discipline, and they are stressed in all courses in the Saint Michael's Curriculum.

IV. The Integration of Human Knowledge

The Liberal Studies courses should establish a foundation of integral values that will help the women and men of Saint Michael's investigate, evaluate and respect life in all its diverse manifestations, and assist them in making the personal decisions they will confront throughout their lives. An effort towards integration is expressed in a variety of ways: notably through the structure and arrangement of the Liberal Studies courses, the development of interdisciplinary courses, and the experience of common learning in Liberal Studies courses.

DEGREE REQUIREMENTS

To earn the Degree of Bachelor of Arts or the Degree of Bachelor of Science a student must:

1. Complete a minimum of 124 credit hours, with a minimum of 34 different courses.
2. Complete the degree requirements of one of the established majors.
3. Complete the Liberal Studies curriculum requirements (see page 10).
4. Achieve a minimum cumulative quality point average of 2.0 and a minimum of a 2.0 average in courses taken in the major.
5. Complete a minimum of 24 of the last 30 credits at Saint Michael's.
6. Transfer students must be in residence for at least one academic year immediately preceding their graduation and must earn a minimum of 30 credits at Saint Michael's.
7. There will be a cap on the number of credits that a student may accumulate in the major. This is established at 52 credits for courses in any one specific discipline designated by the letter prefix for that discipline. This holds for all majors unless there are compelling external requirements that do not allow the student to complete a specific major successfully without exceeding this cap. If these external requirements exist, the Curriculum Committee will take up each department on a case-by-case basis.

It is the responsibility of the student to enroll in the appropriate courses to meet degree requirements.

LIBERAL STUDIES REQUIREMENTS

The specific requirements of the Liberal Studies curriculum are as follows:

- 6 credits minimum in Religious Studies
- 6 credits minimum in Philosophy
- 6 credits minimum in Social Sciences
- 6 credits minimum in Natural and Mathematical Sciences
- 6 credits minimum in Communications
- 9 credits minimum in Humanities as follows:
 - 3 credits minimum in Literary Studies
 - 3 credits minimum in Historical Studies
 - 3 credits minimum in Fine Arts
- 3 credits minimum in Global Perspectives
- 3 credits minimum in Interdisciplinary Studies

Note: students may elect to take an interdisciplinary course from any part of the Liberal Studies courses, and thus complete the requirements. Or students may take an interdisciplinary course from among those Interdisciplinary courses designated in the Liberal Studies Program, and thus “double dip,” i.e. fulfill the Interdisciplinary Studies requirement and one of the other requirements in the Liberal Studies Program.

Total Liberal Studies requirement: 42 credits minimum, distributed over 14 or 15 courses.

A maximum of 8 credits in one's major may be used to fulfill the Liberal Studies requirements.



Listed below are the Liberal Studies courses in each discipline:

Courses in Philosophy

Must complete two courses, one at each level:

PH103 Introduction to Philosophical Problems (required of all students) **and**

PH201 Philosophy of Human Nature, **or**

PH203 Ethics, **or**

PH205 Philosophy of Society

Courses in Religious Studies

Must include one at each level:

RS110 Introduction to New Testament, **or**

RS120 Introduction to Christianity, **or**

RS130 Models of Christianity, **and**

RS 200-level course

Courses in Communication Skills

Either: any 110 or 210 Modern Language course, or any two of the following:

EN101 Writing I

EN201 Writing II

LA211 Intermediate Latin

CO205 or 207 Speech

PH101 Logic of Argumentation

Courses in Social Science

One course from each of two separate departments:

Economics

EC101 or 103 Principles of Economics

EC107 Elements of Economics

EC301 History of Economic Thought

Geography

GG101 Introduction to Human Geography

GG103 World Regional Geography

Journalism

JO101 Mass Communications and Society

Political Science

PO101 Introduction to Politics

PO201 Introduction to American National Politics

Psychology

PS101 General Psychology

Sociology

SO101 Introductory Sociology

SO205 Social Problems

Anthropology

SO109 Introductory Anthropology

Courses in Natural and Mathematical Sciences

Biology

BI101 or 103 General Biology

BI105 Biology for Elementary Education Concentrators

BI107 Human Biology

BI109 Human Genetics

BI111 Principles of Human Nutrition

BI113 Our Green World

Chemistry

CH101 Chemistry for Changing Times

CH103 or 105 Stoichiometry

CH231 The Mystery of Matter

Computer Science

CS101 Computer Programming I

Mathematics

MA101 Finite Mathematics

MA103 Elements of Calculus

MA109 or 111 Calculus I or II

MA211 Calculus III

Physics

PY101 Astronomy

PY105 Physics at a Glance

PY131 Energy for a Technological Society

PY210 or 212 College Physics

Courses in Humanities

One course in each of the following areas:

Literary Studies

CL211 Classical Mythology: The Divinities of Greece and Rome

CL403 Epic and the Heroic Tradition

CL405 Greek and Roman Theatre

EN123 Introduction to Literary Studies

EN211 Genres: Poetry

EN212 Genres: Fiction

EN213 Genres: Drama

EN214 Genres: Film

EN219-221 British Literature I and II

EN251-253 American Literature I and II

EN305 Shakespeare

EN407 African-American Literature

FR317 La Poésie

FR319 Le Théâtre

FR363 Lectures: la littérature francophone

FR415 Roman du XIXe siècle

FR421 Roman du XXe siècle

GE309 Survey of German Literature

IT311 Readings in Italian Literature

RU309 Readings in Russian Literature I

RU311 Readings in Russian Literature II

SP325 El Cuento Latinoamericano

SP327 La Poesía Latinoamericana

SP331 El Teatro Latinoamericano

SP333 La Novela Latinoamericana

SP335 Readings in Latin American Literature

SP413 El Teatro Espanol

SP441 La Novela Espanola

SP443 Cervantes y su obra

SP445 La Poesía Espanola

Historical Studies

CL301 History of Greece: From Bronze to Archaic Ages

CL303 History of Greece: From Pericles to Alexander

CL305 History of Rome: The Republic

CL307 History of Rome: The Empire

HI121 Modern Middle East: An Introduction

HI141	Traditional East Asia
HI143	Modern East Asia
HI161	Early Latin America:
HI163	Modern Latin America
HI201	U.S. History to 1865
HI203	U.S. History Since 1865
HI205	Early Modern Europe
HI207	Modern Europe
HI209	Western Europe in the Middle Ages (400-1050)
HI211	Western Europe in the Middle Ages (1050-1400)
HI218	History of Modern Ireland
RS331	American Catholicism (HB331)

Fine Arts

AR203	Two Dimensional Design
AR205	Drawing I
AR305	History of Art
AR307	Modern Art
DA101	Ballet Barre I
DA102	Ballet II
DA105	Jazz I
DA107	Jazz II
DA111	Modern Dance
DA112	Modern Dance II
DA201	Ballet III
DA397	Dance Ensemble
DR201	Introduction to Theatre
DR203	Oral Interpretation of Literature
DR209	Fundamentals of Play Production
DR301-302	Chief Patterns of Western Drama I and II
DR303	Contemporary Drama
DR307	American Theatre
MU307	History of Music
MU309	History of Music 1600-1750
MU311	History of Music 1750-1900
MU313	History of Music From 1900
MU321	American Musical Theatre
MU323	American Music I
MU325	American Music II - History of Jazz
MU397	Jazz Ensemble
MU398	Chorale
MU399	Concert Winds
RS335	The Liturgical Arts in the Contemporary Church

Courses in Interdisciplinary Studies

One course from among the following:

CL211	Classical Mythology: The Divinities of Greece and Rome
CL403	Epic and the Heroic Tradition
CL405	Greek and Roman Theatre
EN347	Romanticism and Revolution
EN425	Politics and Literature (PO425)
FR343	Topics in Francophone Culture
FR353	Topics in French Culture
FS101	Freshman Studies

HI353	Presidential Elections (PO353)
HU101	Classical Civilization
HU103	Medieval Civilization
HU201	Renaissance-Reformation
HU203	Enlightenment-Revolution
HU311	The Culture of Japan (JA311)
HU321	Disputations and Dialogues
ID305	Gender Studies
ID300	Social Justice in Global Perspective
ID301	Work, Liberal Arts and Purposeful Living
ID373	Ethical Issues in Business
IT309	Topics in Italian Culture
MU321	American Musical Theatre
PO353	Presidential Elections (HB353)
PO425	Politics and Literature (EN425)
RS334	Faith and Imagination
RS335	The Liturgical Arts in the Contemporary Church
RU313	Topics in Russian Culture I
RU315	Topics in Russian Culture II
SP313	Topics in Latin American Culture
SP321	Latino Cultures in the United States

Courses in Global Perspectives

One course from among the following:

BU371	International Business
EC315	Comparative Economic Systems
EC321	Economic Development
EN319	Modern World Literature I
EN321	Modern World Literature II
FR343	Topics in Francophone Culture
FR353	Topics in French Culture
GG101	Introduction to Human Geography
GG103	World Regional Geography
HI121	Modern Middle East: An Introduction
HI141	Traditional East Asia
HI143	Modern East Asia
HI161	Early Latin America
HI163	Modern Latin America
HU311	The Culture of Japan (JA311)
PH353	Non-Western Philosophy
PO205	Comparative Politics
RS317	Introduction to Judaism
RS319	Introduction to Islam
RS323	Hindu Religious Thought
RS325	Buddhist Religious Thought
RU313	Topics in Russian Culture I
RU315	Topics in Russian Culture II
SO401	Cultures of East Asia
SO405	Cultures of Southeast Asia
SO413	Anthropology of Third World Development
SP313	Topics in Latin American Culture
SP321	Latino Cultures in the United States
SP335	Readings in Latin American Literature

MAJORS

Saint Michael's offers the following majors for the Degree of Bachelor Arts:

American Studies	English Literature	Journalism
Classics	Fine Arts	Philosophy
Economics	Art	Political Science
Elementary Education	Drama	Psychology
Engineering	Music	Religious Studies
3+2 with Clarkson	French	Sociology/
University	History	Anthropology
		Spanish

Saint Michael's offers the following majors for the Degree of Bachelor of Science:

Accounting	Chemistry
Biochemistry	Computer Science
Biology	Environmental Science
Business Administration	Mathematics
	Physics

Special Majors

A student may follow a special major by combining courses from different departments and programs according to the following regulations:

1. The student must have the sponsorship of a faculty member who agrees to direct the program.
2. The student must justify in writing the major that he/she proposes and demonstrate its coherence.
3. The program must be approved by the Curriculum Committee.

Proposals for a special major must be submitted to the Dean of the Undergraduate College before the end of the sophomore year.

Double Majors

Students with a cumulative quality point average of 3.0 or better may be allowed to pursue a double major. The permission of the Academic Advisor, the Dean of the Undergraduate College, the Registrar and Department Chair is required. In the case of double majors, one in a department that awards the Bachelor of Science degree and the other in a department that awards the Bachelor of Arts degree, the student will, at the time permission is sought from the Dean to double major, indicate which degree will appear on the diploma. Both majors will be indicated on the transcript. Request for a double major should generally be made by the end of the junior year.

MINORS

A minor in a particular field of study may be satisfied by enrolling in not more than 21 credits within a department. Formal requests for a minor must be made to the Office of the Registrar, generally during the junior year.

The following departments currently offer minors:

Biology	Fine Arts	Spanish
Business	Art	Russian
Administration	Drama	Philosophy

Classics	Music	Physics
Computer	Gender Studies	Political Science
Science	History	Religious Studies
Economics	Mathematics	Sociology/
English	Modern Languages	Anthropology
	French	

ELECTIVES

Electives are the courses that are neither required within the major field nor a Liberal Studies requirement. Depending upon the requirements of the major, a student may have many or few electives. Since the range of Liberal Studies courses is also diverse, the student has considerable flexibility in course selection. Some students select electives to complement their major, while others use them to explore alternative disciplines or optional career paths.

Under a cooperative inter-institutional agreement, Saint Michael's students who carefully select electives in business may also qualify for a master of business administration (MBA) at Clarkson University of New York after an additional year of study at Clarkson. Students need not be business majors to qualify. See page 66 for further details.

ACADEMIC RESOURCES

Academic Advising

Upon enrolling every student is assigned a faculty member as an Academic Advisor.

The student may elect to change advisors at any time. The first meeting between student and Advisor usually takes place during the Orientation Program when students have many questions to be answered. Working together, they select courses, review progress toward requirements and attempt to design a program that best meets the student's educational goals. **Ultimately, however, it is the students who are responsible for their own course selections in planning successfully to meet all graduation requirements.**

Pre-Law Advising

Many Saint Michael's students are interested in pursuing a law career upon graduation. There is no specific pre-law major, as such, at Saint Michael's, nor do law schools recommend any one major as a prerequisite for law. To develop the background and skills necessary for success in the field of law, students are encouraged to choose a major that will be challenging for them. Pre-law students are urged to choose their major according to interest and ability and, thereby, to develop critical thinking and writing skills.

Pre-Health Careers Advising

Pre-medical, pre-dental, pre-veterinary, pre-podiatry, pre-optometry and pre-nursing students are advised by the Pre-Allied Health Advisory committee.

A student may follow a program which provides all of the courses necessary to gain admission to medical, dental or other allied health programs. While many students choose to major in one of the sciences, students in other majors may elect the courses required in preparation for the various allied health graduate programs.

Also, each professional school has additional specific requirements (e.g. dental schools generally require a behavioral science such as psychology). Our biology and

chemistry majors satisfy most of these requirements. (Biologists add physics and chemists add biology to their programs.) A student may, however, elect to major in a non-science area and complete the pre-professional courses as electives. Any student doing this should enroll in the first-year biology course sequence as a freshman and consult with the chairperson of the committee (Dr. Daniel Bean, Biology) during the early part of the first year.

Members of the Pre-Allied Health Advisory Committee work closely with students who plan to seek admission to medical, dental and other graduate programs. They seek to assist students in their course selection, preparation for the Medical College Admission Test (MCAT), Dental Admission Test (DAT), Graduate Record Examination (GRE) and the application process itself.

Graduate School Placement

Students completing their degree programs may be considering advanced study. Saint Michael's College graduates have been admitted to many outstanding institutions for advanced study. While at Saint Michael's, students will find guidance concerning graduate study from their **Academic Advisors** and members of the **Student Resource Center** staff. Admission to graduate school is competitive, and Saint Michael's has an enviable record of placement. Saint Michael's students perform well on Graduate Record Examination Advanced Tests and frequently achieve scores in the top percentiles. Saint Michael's College students have been accepted during the past few years by over 75 of the leading graduate and professional schools.

Library

The **Jeremiah Durick Library**, with its staff of six professionals and 16 full and part-time support personnel, provides a wide range of library materials for the Saint Michael's community. The library contains over 160,000 volumes of bound books and periodicals, over 100,000 pieces of microforms, and over 40,000 other non-book materials including pamphlets, slides, filmstrips, records, cassettes and video recordings. Almost 1,000 periodical subscriptions and over 1,200 serials are received on a regular basis. Students may use five different CD-ROM based computerized public-access periodical indexes in addition to over 80 different printed indexes. On-line computer data base searches are also available and are performed by competent professional librarians.

The Durick Library is open over 100 hours per week while classes are in session, and extended hours during final exams. Reference service is available during most of the day and evening. In the event they cannot find what they need within the Durick's walls, students are encouraged to use interlibrary loan. The library participates in an interlibrary loan network linking hundreds of libraries across the state and country.

The renovation and expansion of the Durick Library is scheduled for completion in summer, 1992. This major project nearly doubles the size of the library and features an automated library catalogue with terminals throughout the building. Also included are many attractive new study areas, classroom space, faculty and staff offices and a special collections room.

Academic Computing Resources

The College's academic computing resources center on MikeNet, a PC network served by two DEC VAX 3400 computer systems. MikeNet provides print and file services, terminal emulation, PC-to-host integration, electronic mail, and a PC software library that includes WordPerfect, Lotus, Quattro, Paradox, EcStatic, and Harvard Graphics. Student access to MikeNet is provided through approximately 125

IBM PS/2 Model 30 microcomputers and 20 computer terminals located in six PC labs and terminal rooms in Durick Library, Jemery Hall, and Saint Edmund's Hall. Within the next few years, every faculty member may have access to these resources with a PC in his or her office; at present, 85 percent of the faculty offices have PCs. Printer services available include dot matrix, ink jet, and laser printers. Over the next few years, the College plans to implement additional microcomputer laboratories for general purpose computing, and computational analysis in mathematics, science, psychology, and computer science. A new PC Lab, in support of the undergraduate and graduate education program, was implemented in March, 1990.

By the summer of 1992, the library's bibliographic database will be computerized and accessible through MikeNet. In addition, plans include making the library's computer system part of the Vermont Automated Library System, whose members include other colleges, universities and public libraries within the State of Vermont. Beyond Vermont, users will have access to all college and university library systems available through the Internet.

Through MikeNet's electronic mail facility, Saint Michael's computer resources can communicate (sending documents, messages, or data files) with other users within the College or, through Bitnet, with colleagues at other educational institutions around the world. Electronic mail is used by faculty, students, and staff; for some courses, students are required to send completed assignments, projects, or term papers in an electronic format to their instructors.

The College's computing resources are maintained through a ten-member Department of Management Information Systems and Academic Computing. This staff supports all aspects of academic and administrative computing, PC and user support, training, computer operations, and word processing; the staff is also responsible for voice and data communications and networking.

The Writing Center

A free *peer-tutoring* program, the Writing Center offers help with writing skills to all Saint Michael's students, as well as hands-on teaching experience to those selected as tutors. These tutors and the faculty director read and give responses to essays, reports, research papers, short stories, poems — any kind of writing, in any field, at any stage, from rough notes to final copy. In a relaxed, friendly atmosphere the staff responds to the development and organization of ideas, reviews grammar, punctuation, mechanics, and usage, and teaches student writers how to revise, edit, and proofread on their own. The Center is conveniently located and open afternoons and evenings five days a week.

OTHER ACADEMIC OPPORTUNITIES

Honors Program

The Honors Program at Saint Michael's provides extra challenges and opportunities to outstanding students through small group discussion, research, and extra-curricular activities. It is also a place for faculty to try innovative teaching styles and content. Students are inducted into the Honors Program either as incoming freshmen (on the basis of a promising high school record) or as rising sophomores (on the basis of an outstanding freshman year). All freshman Honors students participate in a common course during the fall semester, and then take at least three additional Honors courses over the next three years (those who entered as sophomores must take at least four). Many of these courses also fulfill Liberal Studies requirements. Finally, in the senior year, each Honors student completes a senior project; this may

be a research paper, a performance, or some other specially designed exercise. Course credit is received for this project, and all senior Honors students have an opportunity to present and discuss their work with each other in a common seminar.

Freshmen and sophomores who have demonstrated excellent academic achievement are nominated by a faculty member to participate in the Honors Program and may be selected by the Honors Committee. A student's cumulative grade point average must stay above 3.25 in order to participate in the Honors Program.

A sampling of Honors courses offered in the past: Gender in Literature and Philosophy, African-American Literature, Discovery in Mathematics, Religion and Politics, Globalization Theory, The Holocaust, The Environment.

Independent Course Work

Under special circumstances, when a course is not offered during a given semester, or when there is an unresolvable scheduling conflict, a student may complete the course work on an independent basis. The student must have the approval of a faculty sponsor, the department chair and the Associate Dean of the Undergraduate College. A 3.0 minimum quality point average is generally required. Requests must be completed by the last day of the course change period. The fee for an independent course is \$150 when the course is considered a part of the student's normal semester load. Special arrangements are made for extra credits beyond 18 credits or for a part-time student.

Independent Research

Qualified juniors and seniors may be permitted to engage in independent research with a faculty member to which varying amounts of credit are attached. Independent research which contributes to the student's fuller understanding of a subject not covered in regular courses will be authorized for qualified applicants. It is limited to a maximum of six credits. The proposal must be approved during the semester preceding the proposed endeavor by the Associate Dean of the Undergraduate College.

Successful applicants for independent research to which credit is attached will be charged the usual rate of tuition. If the need exists or if merit scholarship assistance is appropriate, the Director of Financial Aid should be consulted.

Internships

Internships are supervised work experiences within both the public and private sectors. They are designed to enhance and supplement formal education and promote personal and career development. Internships are available in such areas as: accounting, advertising, business administration, communications, the environment, fine arts, human resource development, human services, legal advocacy, governmental advocacy, market research, museum research and sales/marketing. Students may develop individualized internships and present them as possible options.

The majority of internships are taken for three credits. They must constitute significant learning experiences in every instance. Applicants must have junior or senior standing and transfers must have completed a minimum one semester of college work at Saint Michael's. Internships may not be done as an overload during a regular academic semester. Applicants are required to have completed prerequisite courses and have a 2.7 minimum cumulative grade point average and the support of their Academic Advisor and Department Chair. The Internship Coordinator will assist students in identifying internship placements and in preparing the required study

agreement. The proposal must be approved by the Associate Dean of the Undergraduate College.

Successful applicants for internships to which credit is attached will be charged the usual rate of tuition. If the need exists or if merit scholarship assistance is appropriate, the Director of Financial Aid should be consulted.

Study Abroad

Saint Michael's students in many majors may spend a semester or year of study abroad. Saint Michael's College students have the opportunity to choose from a wide selection of accredited study abroad programs sponsored by colleges, universities, and agencies in this country as well as in the host countries. Each academic year approximately 50-60 students study abroad or off-campus. In addition, some students attend summer programs in western Europe, and several participate in research and field projects in Paris and London directed by faculty members each year during the intersession between the fall and spring terms. In all, nearly 10% of the students who graduate from Saint Michael's will have participated in a study abroad experience.

Saint Michael's College is affiliated with Loyola University of Chicago's Rome campus and with American University's Washington Semester in Washington, D.C. In addition, Saint Michael's is a member of the Northeast Consortium for Study Abroad, which is sponsored by the American Institute of Foreign Study and places students from Australia to Russia. We also have special exchange agreements with Xavier University of New Orleans and Kansai Gaidai University of Osaka, Japan and have an association with Bath College of Higher Education in Bath, England for our Education majors.

For information on study-abroad opportunities, interested students may consult the Study Abroad Advisor or contact the Office of the Associate Dean of the Undergraduate College.

In order to ensure proper selection of programs and courses, and to facilitate transfer of credits, students must obtain authorization from their Academic Advisor, Department Chair and the Associate Dean of the Undergraduate College. The signatures indicate prior approval of the courses to be taken. The application is submitted one semester prior to the student's departure.

To be considered for approval, students must have at least a 2.8 quality point average. The semester or year of study should generally be taken in the junior year.

Center for International Programs

Since 1954, Saint Michael's College has had a special commitment to the education of international students. The Center for International Programs offers three academic English training programs and a number of special study programs that attract men and women from Asia, Latin America, Africa, Europe and the Middle East. These international students who come from over 30 countries give American students an outstanding opportunity to gain new global and cultural perspectives. The international students benefit from their college experience in the United States and opportunities for establishing friendships as they work to develop English proficiency and prepare for continued college study or professional advancement.

For further information on the CIP's programs please see page 137. For information on opportunities for involvement with international activities, interested students should contact the Center for International Programs office.

Air Force and Army ROTC

The Air Force ROTC program is offered at Saint Michael's. AFROTC, which offers superior pre-professional opportunities to future career Air Force Officers, has both two- and four-year programs.

Qualified students may be eligible for scholarships. Interested applicants should write to: The Department of Aerospace Studies, Saint Michael's College, Winooski Park, Colchester, Vermont 05439. Further information is available on page 50.

Army ROTC is offered at the University of Vermont. Qualified Saint Michael's students are eligible for one- to four-year scholarships. Further information on Army scholarships for Saint Michael's students may be obtained by writing to: The Department of Military Science, University of Vermont, Burlington, Vermont 05405. Courses are listed on page 52.

College-level Examination Program

Saint Michael's College participates in the College-Level Examination Program (CLEP). The Educational Testing Service of Princeton, New Jersey has prepared standardized tests which are designed to measure college-level learning acquired through independent reading, job-training, television programs and other non-traditional educational sources. Students enrolled at Saint Michael's may submit scores of these CLEP examinations to be evaluated for credit. Contact the Saint Michael's College Registrar for detailed information.

CLEP examinations are divided into two areas:

- I. General Examinations which measure achievement in basic areas of liberal arts (such as humanities and natural science). Saint Michael's College will usually grant credits if sixtieth percentile minimum scores are attained.
- II. Subject Examinations which measure achievement in specific courses. These tests are used to grant exemptions from and credits for specific courses (such as American Government, Business Law, Educational Psychology, and English Literature). CLEP scores at or above the sixtieth percentile can be used to fulfill Liberal Studies or prerequisite requirements. No more than 6 credits can be given for any one subject examination, and no more than a total of 30 credits will be accepted by Saint Michael's College for CLEP examinations.

Advanced Placement Program

Saint Michael's College participates in the Advanced Placement Program of the College Entrance Examination Board. Students who have taken accelerated courses in high school and who score three or above on Advanced Placement Exams will be *considered* for college credit and/or course waiver. Some departments require a four or five for the awarding of credit. Prospective students are encouraged to contact the respective Department Chair, the Office of the Associate Dean of the Undergraduate College or the Registrar for further clarification.

Inter-Institutional Cooperation with Trinity College

Saint Michael's has a reciprocal arrangement with Trinity College in Burlington. Saint Michael's students may enroll in one course per semester at Trinity as part of their registration. Prior written approval of the student's Academic Advisor, the Associate Dean of the Undergraduate College and the Registrars at both colleges is required.

During the regular academic year Saint Michael's tuition covers Trinity courses. They are taken at no additional expense.

As a special exception to the general rule prohibiting grade transfer (page 21), grades earned in Trinity courses, while a student is concurrently enrolled at Saint Michael's, transfer and are computed in quality point averages.

Xavier University of Louisiana Exchange Program

Saint Michael's has a student exchange arrangement with Xavier University, a predominately African-American, liberal arts, Catholic university located in New Orleans. According to the terms of this arrangement, students from Saint Michael's may enroll for a semester of study at Xavier during their junior year, and Xavier students may enroll for a semester of study at Saint Michael's. Prior written approval of the student's Academic Advisor and the Associate Dean of the Undergraduate College at both institutions is required.

Cooperative Agreement with Clarkson University

Saint Michael's College has a formalized inter-institutional agreement with Clarkson University of New York that grants qualified graduates special consideration in their Master's program in Business Administration. Under this agreement, a Saint Michael's student with the appropriate prerequisite courses and quality point average receives special admission status, and may complete the requirements for an MBA degree in one year after graduation from Saint Michael's. See page 66 for further details.

ACADEMIC REGULATIONS

Academic Integrity

The College exists primarily to sustain the pursuit of knowledge. Scholarship, teaching, and learning are possible only in an environment of academic integrity characterized by honesty and mutual trust. Simply expressed, academic integrity requires that one's work be one's own. It is the responsibility of every member of the College community — faculty members, students, and administrators — to insure that the highest standards of academic integrity are maintained.

Because violations of academic integrity threaten the intellectual climate central to the pursuit of knowledge, they cannot be tolerated. Violations of academic integrity include the following: plagiarism, unauthorized assistance, interference, and multiple submission. A more detailed explanation of academic integrity violations and the procedures for dealing with violations of academic integrity are presented in the *Student Guide and Code*.

Examinations

Tests may be held at any time during a semester course at the discretion of the instructor. Final examinations are given at the appointed time at the end of each semester. Final examinations may not be omitted without the approval of the Dean of the Undergraduate College.

Make-up examinations are given to students who are legitimately absent from a final examination. Requests for make-up examinations are made to the Dean of the Undergraduate College. Students who are suspended for disciplinary reasons are not eligible to take examinations or to make them up, unless such permission is given at the time of suspension.

The permanent grade in each course is based upon class work and the final examination. The instructor determines what weight is to be given to each.

Grading System

Instructors report grades to the Registrar four times a year. They report final course grades at the end of each semester; they report grades of D or F at mid-semester.

Grades are reported and recorded by letters which indicate the following:

- A — Superior
- B — Very Good
- C — Satisfactory
- D — Poor
- F — Failing

Student averages and rank in class are computed on the following quality point basis. In this system:

A = 4.0	B- = 2.7	D+ = 1.3
A- = 3.7	C+ = 2.3	D = 1.0
B+ = 3.3	C = 2.0	F = 0.0
B = 3.0	C- = 1.7	

When a course is taken on a pass or fail basis, a passing grade is indicated by the letter P and a failing grade by the letter F. The F grade is assigned zero quality points and is computed in the student's average. A Pass grade cannot be assigned quality points and, therefore, is not computed in the average.

To determine the quality points earned for a particular course, multiply the number equivalent to the letter grade by the credit hours assigned to the course. For credit notations see the descriptions of particular courses starting on page 49 in the catalogue. Thus an A in Biology 101 (4 semester hours) earns 16 quality points (4 quality points x 4 semester hours).

To arrive at the quality point average (Q.P.A.), add the quality points for all courses. Then divide this sum by the number of credit hours attempted.

Other Grade Notations

Instructors may also use the following letters in reporting grades:

- I** Some course assignments have not been completed for a legitimate reason. This is not a permanent notation.
- X** Student was absent from the final examination for a legitimate reason. This is not a permanent notation.
- WD** Student withdrew from course without penalty.

Grades of I, X, and WD are not computed in the student's average. Grades of I and X must be made up within six weeks of the beginning of the semester following the assignment of the notation. A record containing such a notation is not eligible for honors in the semester in which it was incurred. After the make-up of an I or X, a new average will be computed and the student's record corrected. If an I or X is not made up, the final grade in the course becomes an F.

Repeating Courses

A course in which a student earns an F or D grade may be repeated. In non-major courses, both grades appear on the transcript and both are computed in the student's cumulative quality point average. When a course in a student's major is repeated, both grades remain on the transcript and are computed in the cumulative quality point average, but only the higher grade is computed in the major average. A course that was passed (D, D+) and then repeated for a better grade will count as only one of

the required courses. When courses are repeated at other colleges or universities (Trinity exception, page 18) only credits and not grades transfer.

Grades from Other Institutions

A grade of C minus or better is required in order for the credits to be considered for transfer from other institutions, but the grade is not calculated in the quality point average.

Dean's List

A student who achieves an average of at least 3.0 at the end of a semester with no grade below B- or who achieves an average of 3.25 with no grade below a C- and who has completed a minimum of twelve credits is cited on the Dean's List.

Graduation with Honors

Students who maintain the cumulative quality point averages specified below receive their degrees with honors listed:

Cum laude	— 3.25
Magna cum laude	— 3.60
Summa cum laude	— 3.90

Probation and Warning

If a student fails one or more courses he/she is placed on **WARNING** and so notified. When a student is below the qualifying cumulative quality point average he/she is placed on **PROBATION** and so notified. This qualifying cumulative quality point average escalates from a 1.4 in the first semester of the freshman year to a 1.6, 1.7, 1.8, 1.9, and 2.0 in each of the following semesters. The minimum quality point average required for graduation is a 2.0 ("C") in both the major and in all courses attempted.

While on probation a student may not be eligible to participate in extracurricular activities. Furthermore, a student who is placed on probation at the end of a semester will have his/her record formally reviewed at the end of the following semester by the Academic Board of Review. If satisfactory progress is not being made, the Board will recommend appropriate action, including possible dismissal, to the Dean of the Undergraduate College.

Although the procedure listed above generally applies, Saint Michael's College reserves the right to dismiss at any time, without giving additional reason, students whose conduct or academic standing it judges to be unacceptable. Neither the College, nor the officers, nor the Trustees of the College will be under any liability for such dismissal.

Leaves of Absence and Withdrawals

Students may withdraw from the College for a limited period of time (leave of absence) or permanently. Under usual circumstances, a withdrawal form should be obtained from the Student Resource Center, completed, and filed with the Office of the Registrar. If the withdrawal occurs early in the semester, there may be a partial refund of tuition and fees. Please see page 38 for the refund schedule.

1. **Leave of Absence.** Students who intend to return may request a leave of absence from the College for up to two academic semesters. Students on leave of absence status will be assessed a continuance fee of \$40 each semester. Registration materials will be sent by the Registrar to the student's home address at the appropriate time in the semester. These must be returned by November 1 for the spring semester and by May 1 for the fall semester to initiate the readmission process. Students on medical leave must provide

evidence to the Dean of Students that the medical problem has been resolved. In the event that students either fail to pay the continuance fee or extend beyond the two semester leave of absence, they will be reclassified as voluntary withdrawals (see below).

2. **Voluntary Withdrawals.** A voluntary withdrawal is provided to students who do not intend to return to the College. Students who have withdrawn in good standing may apply to return to the College with a letter of reapplication by November 1 for the spring semester or by May 1 for the fall semester. Letters should be sent to the Registrar. Readmission of students who voluntarily withdraw will be competitive and on a space available basis.

Class Attendance

Students should understand that the main reason for attending college is to be guided in their learning activities by their professors. This guidance takes place primarily in the classroom and laboratory.

The following policies have been established:

1. Members of the teaching faculty and students are expected to meet all scheduled classes unless prevented from doing so by illness or other emergencies.
2. The instructor of a course may allow absences equal to the number of class meetings per week. Additional absences will be considered excessive.
3. The instructor may report excessive absences to the Associate Dean of the Undergraduate College, who may warn the student.
4. If absences continue, the Associate Dean of the Undergraduate College may remove the student from class with a failing grade.

Full-Time Student, Part-Time Student

A matriculated student who takes 12-18 credits is considered to be a full-time student. The successful completion of such a schedule will fulfill the credit and course number requirements for graduation. A matriculated student who enrolls in fewer than 12 credits is considered to be part-time.

Non-matriculated (Special) Students

Students who have not been admitted into a degree program at Saint Michael's may, with the written permission of the Associate Dean of the Undergraduate College, be permitted to enroll in courses on a limited basis. Enrollment as a non-matriculated student is generally limited to a cumulative total of 12 undergraduate credits. To continue beyond 12 credits, the student must be formally admitted to the College through the usual application procedures of the Admission Office.

Course Overloads

Any non-freshman student with a cumulative grade point average of 2.5 or higher may petition to take more than 18 credits. Students with a lower average may do so only with the written permission of the Registrar or the Associate Dean of the Undergraduate College. The charge for this course will be \$170 per credit. This charge will be waived for a student who completed at least five courses in the previous semester with a quality point average of at least 3.0 in those courses.

Pass/Fail

With the permission of the instructor an extra course may be taken on a pass/fail basis. This option is open to those students who completed at least 15 credits in the

previous semester with a quality point average of at least 3.0 in those courses. Courses in the following categories may not be taken on a pass/fail basis:

- a. Courses in the department of major;
- b. Courses outside the department of major which are major requirements;
- c. Courses being taken to satisfy Liberal Studies requirements. Students will make their selection of the course they wish to take on a pass/fail basis during registration period (first week of semester). A special pass/fail form must be filed in the Registrar's office.

Preregistration

Students arrange their class schedules in a preregistration period (normally in November and again in March) after consultation with their advisors. *For the March preregistration only*, an advance deposit of \$300 is required of each student who preregisters for the following academic year. This must be paid by March 1. No student will be allowed to preregister **for classes or partake in room draw** without certification of payment by the Bursar's Office. This deposit is non-refundable unless the Registrar is notified in writing by June 15 that the student who paid it will not return to Saint Michael's College. The deposit is credited to the student's account. In addition to the \$300 deposit, a late fee of \$25 will be charged to any student not completing preregistration during the scheduled period in March.

Registration

Students confirm their registration for courses at the beginning of each semester. (Please see Academic Calendar.) Students who are late in registering at the beginning of the semester will be charged a fee of \$25.

Change of Course or Section

Students may, without charge or penalty, request a change of course or section up to and including registration day of either term. They may also make changes during the first seven class days in any given semester.

A student wishing to make a course change should make this request through the Registrar's Office. The student is responsible for notifying the instructors involved and their academic advisor when a course or section change is made and for filing an official signed card with the Registrar.

Courses at Other Institutions

Occasionally Saint Michael's students wish to take courses at colleges or universities other than Saint Michael's. The most common such case is taking a summer school course at a college convenient to the student's summer residence. This is permitted — with a maximum of two courses per six week semester — provided that the course has the prior approval of Saint Michael's. To secure such approval, the student is asked to acquire the college catalogue of the offering institution and submit it with the appropriate form to the Registrar. Based largely upon comparability to our own courses, approval must be obtained from the student's Academic Advisor and either the Associate Dean of the Undergraduate College or the Registrar. It is not recommended that students take courses in their major at other institutions. The additional approval of the Department Chair is required to do so. A grade of C minus or better is required in order for the credits to be transferred, but the grade is not calculated into the quality point average.

Juniors and seniors will generally not be permitted to take summer courses at two year colleges.

Students who wish to enroll for a semester or year of study at a college or university other than Saint Michael's may seek approval from the Associate Dean of the Undergraduate College or the Registrar.

COLLEGE POLICIES

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

The Family Educational Rights and Privacy Act of 1974 pertains to student educational records maintained by Saint Michael's College. The Act states that students, and parents of dependent students, can have access to their educational records, and at the same time the Act protects the rights to privacy of students by limiting the transferability of records without their consent. The following guidelines are presented to assist all members of the Saint Michael's community in understanding the provisions of the Act as they apply to Saint Michael's College.

College Policy on Student Access to Educational Records

All students and former students will have access to their educational records upon written request to the applicable office. Each office will comply with all requests within a reasonable length of time, but not later than forty-five days from the date of the written request. Educational records include academic records, confidential letters and statements.

Records not covered by the Act include any record received prior to January 1, 1975, financial records of parents, private notes of faculty and administrative officers, law enforcement records, and medical or psychiatric records. A physician or psychiatrist may review medical or psychiatric records if requested by a student.

Students may waive, in writing, access to recommendations and evaluations. A waiver must be filed with each individual office. The Act does not provide for blanket waivers of access to all educational records.

A student who requests access to an educational record is expected to present valid identification and to use good judgment as to the time and work problems of the office in which the records are maintained.

Students may request copies of any educational record at the cost of \$1.00 for the first page and 10 cents for each additional page per request.

College Policy on Release of Confidential Records

The College will not release any educational record concerning any student or former student unless a written statement authorizing such a release is received from the student or former student. Exceptions to this policy are:

1. Faculty and staff members having legitimate educational interests in the record.
2. Authorized federal and state officials in the process of administering educational programs.
3. Requirements of administration of the Financial Aid Program.
4. Accrediting organizations in carrying out their accrediting function.
5. Parents of a dependent student.
6. Directory information. (See below).
7. Organizations conducting studies on educational programs, provided that the identity of the student is not revealed.
8. In an emergency situation involving the health or safety of the student or other persons.

The College will advise all recipients of student records that only authorized persons may see the records. Each College office will keep a record of all individuals requesting or receiving student records except as noted in item 1 above.

Directory Information

The College will, in the course of the school year, release to the public certain information regarded as directory data. If a student does not want this information publicized, he/she must request in writing on an annual basis that such information not be published. Saint Michael's College considers the following to be "Directory Information."

Name and Address	Height/Weight (athletic team members)
Telephone Number	Dates of Attendance
Date/Place of Birth	Degrees and Awards
Academic Major	Previous School Attendance

Hearings

A student may challenge any educational record that he/she feels to be inaccurate, misleading, or a violation of privacy. This policy does not apply to academic grades received for course work except when there is reason to believe that an error was made in recording grades to the transcript.

When a student desires to challenge a record, every effort should be made to resolve the question with the office involved. If this is not possible, the student must submit in writing to the coordinator of the Family Educational Rights and Privacy Act of 1974 a statement outlining the alleged inaccurate, misleading or inappropriate data or statement contained in the record. The coordinator will appoint an impartial college official who will conduct a hearing within 45 days of the written request. The results of the hearing will be transmitted in writing to the student and all other parties involved. The student may appeal the decision to the president of Saint Michael's College. The president's decision will be final.

The above policy statement is subject to amendment from time to time and is also subject to approval by the Board of Trustees.

Family Educational Rights and Privacy Act Coordinator

Maureen McNamara, Registrar, Jemery Hall 288, 802-654-2571

HANDICAPPED STUDENT SERVICES

Services for handicapped students are coordinated through the Office of the Vice President for Student Affairs. The College engineer deals with facility accessibility issues and supports the services coordinated by Student Affairs. Any questions or concerns about such services should be directed to:

Michael D. Samara	David Cutler
Vice President for Student Affairs	College Engineer
Alliot Hall 105	Founders Annex
802-654-2566	802-654-2653

THE CAMPUS

The Saint Michael's campus, coupled with the splendor of the Green Mountains and the vitality of the Burlington area, offers a superb environment in which to learn, to recreate, to grow.

Saint Michael's campus shares, and cherishes, an environment that by any standard is exceptionally beautiful. Mount Mansfield, Vermont's tallest peak, rises out of the morning mist to our east; and the view of the sun setting over Lake Champlain and the Adirondacks is often spectacular. Our own hilltop overlooks the winding Winooski River and covers a landscaped 430 acres, divided into the Main and North campuses.

THE MAIN CAMPUS

Founders Hall, the original College building, was built on a site once occupied by a farmhouse. At one time the building housed all of the College functions, including dorm space, dining hall, gym and classrooms. It now doubles as a residence hall and administrative office space. The bell tower atop Founders has long served as a symbol of Saint Michael's College.

Jemery Hall is a classroom and academic administrative building. The Department of Management Information Systems and Academic Computing and many of its resources are also located in Jemery Hall.

St. Edmund's Hall, completed in 1987, is an attractive three-story L-shaped academic building that connects Cheray and Jemery Halls to form an academic quadrangle. Instructional space in the 70,000 square foot building meets high academic standards. Modern audiovisual and computer facilities provide support for all academic programs.

Cheray Science Hall is the science classroom and laboratory building and has been used by the many Saint Michael's graduates who are now in the medical and science professions. Although one of the oldest buildings on campus, the facility holds some of the most modern research equipment for student use.

The *Michael and Margaret McCarthy Arts Center* is the cultural center of the campus. The fine arts have long been of interest to our students and the McCarthy Arts Center provides a wonderful facility for their use. Among other capabilities, the center contains a modern and well-equipped theater. The proscenium-type theater is the scene of many student and professional productions, including a professional summer program with Equity Actors.

Music is another major emphasis at the McCarthy Arts Center. In addition to providing a superb auditorium for visiting vocal and instrumental artists, the recital hall gives students the opportunity to perform on campus.

The *Chapel of Saint Michael the Archangel* is the spiritual center of the campus. The Sunday folk mass attracts capacity crowds and participation in many aspects of the liturgy is encouraged. Contemporary in design, the chapel seats 1,000.

Recently renovated and expanded, *Alliot Student Center* includes the main dining hall, a snack bar, offices for student organizations and the student services staff, the College bookstore, and meeting and function spaces.

Vincent C. Ross Sports Center is the College's center of athletic activity. Included in the building are a 2,400 seat gymnasium with three full basketball courts and two volleyball courts.

In other areas of the sports center are an NCAA regulation six-lane swimming pool with a one-meter diving board, men's and women's locker rooms, training facilities, and a weight room. Nearby are fields for soccer, baseball, field hockey, lacrosse and softball, as well as lighted tennis courts.

The Residence Halls

Alumni, Joyce, Lyons, and Ryan are the main residence halls. They are located in a landscaped quadrangle within easy walking distance of the classrooms, library, sports center, and student center.

Hodson Hall offers a suite-type living situation for about 50 upperclass students.

The Townhouse Apartments, built in three clusters, provide apartment-style housing to nearly 300 upperclass students. A typical townhouse apartment features a furnished living room, dining area and kitchen on the first floor with bedroom space for four students (double or single rooms) on the second floor.

Each townhouse is very energy efficient, utilizing a heat storage system and high R-value insulation. Students who make a conscientious effort to conserve energy throughout the year will receive a rebate on energy costs.

International Houses, similar in appearance to the townhouses, accommodate groups of international students enrolled in specially designed programs in English as a second language. Three buildings, each housing four apartments with three double bedrooms apiece, are clustered around a commons building designed for classes and other functions.

THE NORTH CAMPUS

The North Campus was, at one time, an army fort built to protect the area from the threat of invasion from the north. This historic landmark now provides space for a number of organizations, including Saint Michael's College. Once known as Fort Ethan Allen, North Campus is located just one mile from the Main Campus. A free shuttle bus, which runs every 15 minutes, connects the campuses. During the warmer months faculty and students enjoy walking or bicycling between them.

On the North Campus there are a number of small residence halls. Some are regular dormitories, while others are apartments. This is often thought of as preferred housing and is usually reserved for upperclass students. Dining facilities are also available on the North Campus.

Sloane Art Center provides studios for painting, sculpting, drawing and graphics and offices for AFROTC. Other facilities on the North Campus include a theater, our fire station and service buildings. Also located on North Campus are the studios of Vermont Public Radio and Educational Television.

The North Campus, with its echoes of horse-mounted soldiers and elaborate officers' homes, is an active segment of Saint Michael's College. Its tree-lined streets and conveniently located residence halls are a wonderful supplement to the facilities on the Main Campus.

STUDENT LIFE

STUDENT SERVICES

On any campus, learning and growth occur both in and outside of the classroom. On a campus like Saint Michael's where 85% of the student population reside in the residence halls, the sphere of student development gains a special significance. Just as faculty members are highly educated and dedicated to teaching, there is a special group of people on the campus who are devoted to each student's intellectual, social, physical, and spiritual development outside of the classroom. Students experience a unique kind of caring and concern for all facets of their growth by the student service

staff of Saint Michael's College. The following pages describe many of the services and activities available to the students of Saint Michael's. All of these services are designed to provide the type of support needed to enhance a student's college experience.

ORIENTATION

The beginning of any new experience is exciting and tension filled, and starting college is a major transition in one's life. Saint Michael's College is concerned with giving new students the best possible introduction to campus life.

The College is very proud of its Pre-Orientation Weekends (POWs) offered during the summer prior to starting at Saint Michael's College. New students are offered an off-campus weekend experience where discussion on academics, adjustment, and life at Saint Michael's provides an opportunity to learn about life as a college student. In addition, POW is a great way to meet people who will be classmates and peers during the four years at Saint Michael's.

New Student Orientation is held in September prior to the first day of classes. These first days are reserved for learning about the abundance of resources and services available on campus. Faculty, staff, and student orientation leaders join forces to provide a comprehensive introduction to Saint Michael's. Students meet with their Academic Advisor to discuss the best course selection, to have an opportunity to explore the liberal arts and to meet with faculty members in an informal setting.

Check the Academic Calendar for specific New Student Orientation dates.

FRESHMEN PROGRAMS

Saint Michael's has a very strong commitment to provide a positive first-year experience for students. A full-time Director of Freshmen Development coordinates an extensive program of workshops and activities to address the intellectual, social, emotional, physical, spiritual, and cultural development of all freshmen. Through individual contact with freshmen, coordination of faculty interaction in the residence halls and work with an extended orientation program, the Director works to create a structured program for the personal development of each freshman.

RESIDENTIAL LIFE

All full-time undergraduate students who do not reside with their families are required to live on campus. Exceptions may be made if space is not available on campus. In this case, seniors will have priority. Since about 85% of students reside on the campus, residence hall living is an important part of the years spent here.

Most students find the experience of sharing a room, living on a floor with many other people and taking an active part in the residence hall community to be both challenging and fun. There is no course in residence hall living listed among the academic descriptions, but the lessons in human nature, the friendships developed and the memories recalled will last a lifetime. The Director of Residence Life and the residence hall staff are educators who are ready to help students make the most of their residence hall experience.

Sophomores and juniors primarily reside in coed halls that are integrated by floor. Freshmen will generally reside in non-integrated housing in Joyce and Lyons, located on the Main Campus. Also located on the Main Campus are townhouse facilities, which are available to juniors and seniors only.

The North Campus, with sixteen units of student apartments and three medium-sized residence halls, is popular with many upperclass students. The apartments, with kitchen and living room facilities, offer juniors and seniors the privacy of apartment

living with the convenience of being on campus. The medium-sized residence halls on the North Campus provide students the opportunity to be active in a smaller community and really get to know the other residents of their hall.

Several smaller houses between the two campuses and on the periphery of the Main Campus are dedicated to special student groups like the Rescue Squad and other volunteer groups, enabling the residents to pursue common interests. Plans are being made to provide an "alcohol-free" living option for interested students, details to be finalized during the Spring 1992 semester. On the Main Campus, Hodson Hall offers suite facilities to upperclass students. Four single rooms, bath, kitchen and living room space compose each suite.

The newest residences on the Main Campus are the Townhouse Complexes, offering apartment-style living for 288 upperclass students.

Students from the International Student Program reside in some of the residence halls, giving American students the unique opportunity to meet people from all parts of the world.

Room assignments for new students are made on a random basis after upperclass students have completed room selection. As indicated above, most freshmen will reside in the Quad, although some new students favor the atmosphere of the North Campus housing.

HEALTH SERVICES

The Health Services at Saint Michael's College not only attempts to keep each student in his or her optimal state of health, but also promotes independence and wellness through education. This is possible by the utilization of a team of primary health care professionals — nurses, nurse practitioners, and physicians.

It is the philosophy of the Health Services to care for the whole person. A full range of clinical services is available, as are education programs to increase health awareness, health maintenance, and illness prevention.

The Health Services is located in Alumni Hall and is open weekdays from 8:00 a.m. to 8:00 p.m., and on weekends from noon to 8:00 p.m. The Director is a nationally certified nurse practitioner specializing in adult and adolescent health, as well as a health educator. Nationally certified nurse practitioners specializing in family health and pediatric health, and registered nurses skilled in varying levels of assessment and management of health problems are also available. Referrals are made by appointment, in the Health Services, to consulting physicians, who are also on 24-hour call.

Fanny Allen Hospital and the Medical Center Hospital of Vermont provide excellent ancillary services. The student-staffed Saint Michael's Rescue Squad provides emergency aid and transport.

Services offered include:

- General care for illness and injury
- Comprehensive gynecological evaluation
- Physical exams for study abroad, sports participation, health maintenance
- Rape crisis/assault prevention education and counseling
- Evaluation of sexually transmitted disease
- Nutrition and diet information: weight loss/gain counseling
- Drug information/treatment/referral

AIDS information/counseling

Laboratory services/referral

The Health Services works closely with other College departments such as the Student Resource Center, Campus Ministry, athletic trainers, and Residential Life to provide a holistic approach to student health and wellness. The Health Services education programs are held throughout the year and are directed toward increasing knowledge about health and wellness. Our goal is to teach students to become informed health care consumers, to develop healthy lifestyles, and to assume responsibility for their own well-being.

FOOD SERVICE

Resident Program

The Resident Dining Program offers two primary dining rooms. Alliot Dining Hall, newly redesigned, serves an eclectic menu on the Main Campus. At North Campus, a mini-café offers breakfast, lunch and dinner to 170 residents Monday through Friday.

Students are given the option of choosing a 21- or 13-meal plan. The 21-meal plan is designed for the student who eats three meals a day. The 13-meal plan is designed for the student who would miss meals due to a busy schedule. Along with either meal plan option, each student receives a complimentary meal card that allows him/her to bring a guest into the dining room. This pass also has a dollar value and can be redeemed at Greensleeves, the campus snack bar, located in Alliot Hall.

Non-Resident Program

Non-resident students, faculty and staff at Saint Michael's College can purchase a 20-meal "Knight Card" which entitles the purchaser to discounted meals at Alliot and North Campus. This ticket is transferable and does not expire.

Greensleeves is the snack bar on campus. This facility is open most days from 7:30 a.m. to 11:00 p.m. and offers everything from pizza to burgers to Mexican food.

Also located on campus is the cart in St. Edmund's lobby, open Monday through Friday for snacks.

CAMPUS MINISTRY

Campus Ministry is one of the important ways the Church exercises its mission in higher education. Campus Ministry goals include promoting theological study and reflection on the religious nature of human beings so that intellectual, moral, and spiritual growth can proceed together; sustaining a Christian community on campus, with the pastoral care and liturgical worship it requires; integration of its apostolic ministry with other ministries of the local community and the diocese; and helping the Christian community on campus to serve its members and others.

Campus Ministry gathers the members of the campus community on campus for prayer, worship, and learning in order that they might bring the light of the Gospel to illumine the concerns and hopes of the academic community. All the members of the Church on campus are called, according to their own gifts, to share in this ministry.

M.O.V.E. (*Mobilization of Volunteer Effort*) is a broad-based community service organization of the Office of Campus Ministry. The M.O.V.E. mission is derived from the mission of the College, which strives to instill in each member of the community a sense of service to others. Its goal is to channel the talents, creativity, and energy of the Saint Michael's community into innovative and effective service programs that will enrich the Chittenden County community, especially the poor and disenfranchised.

M.O.V.E. responds to a variety of needs. Efforts are divided into the following programs: Education, Senior Citizens, Youth Development, Best Buddies, Little Brother/Little Sister, and Special Projects. Many activities are coordinated through agencies that have been established to meet the specific needs of the community.

EDMUNDITE ASSOCIATE PROGRAM

The Edmundite Associate Program is designed to encourage, counsel and give Christian direction to students interested in religious life.

Since the first thoughts or desires about a religious vocation can sometimes be troubling, or seem complex, and because there is need of a discerning process, the Edmundite community offers to assist students in this process of arriving at a mature decision concerning religious life.

The Associate Program provides the following opportunities:

- 1) Spiritual direction by a member of the Edmundite community
- 2) Reading programs
- 3) Retreat weekends
- 4) Interaction with the Edmundite community
- 5) Summer volunteer work in an Edmundite parish or mission.

The program is open to any student who feels he has a religious vocation and desires to grow in understanding the meaning of religious life.

A student may enter the program at any time during his education at Saint Michael's College. The student is not required to make any commitment to a religious vocation or to the Edmundite community. He may withdraw from the program at any time.

Interested students may apply through the Office of Campus Ministry or the Edmundite Vocations Office.

STUDENT RESOURCE CENTER

The Student Resource Center provides services to meet the academic, personal and career needs of Saint Michael's students. The focus is on promoting individual growth and development and furthering self-understanding while encouraging a sense of community. A personal and confidential response to students' needs is provided, and there is no charge for these services. The Center has two major divisions — *Counseling* and *Career Development*. Each addresses itself to areas with which all students are concerned during their college experience.

Counseling — Qualified counselors and a study skills instructor provide academic and personal counseling.

Personal Counseling — The Student Resource Center emphasizes education in skills that enhance growth and that can be used continually throughout one's life. Through individual counseling and group programs one can learn how to change self-defeating behavior, manage anxiety and depression, and improve relationships. The counselors will listen, suggest alternatives and help each person develop new skills and

strategies while maintaining respect for each individual's ability to make decisions. Therapy is also provided by the counselors where a psychological need is present. Workshops are offered on topics of concern to today's college students. Referrals are made to psychiatric consultants when necessary.

Study Skills — The emphasis of this program is to assist students in developing their academic skills. Study skills workshops, together with individual meetings, offer students the opportunity to improve existing skills, to develop new skills, and to help maximize their learning experience. Topics covered are time management, motivation and goal setting, note-taking and test-taking skills, and textbook comprehension techniques. The study skills coordinator will help each person utilize these skills in a way most beneficial to him or her.

Career Development — Professional career counselors provide assistance in career planning and placement. Few students can ignore the pressure to decide what they will do after they graduate from college. Although students are unwise to make a decision prematurely, it is important that resources for exploring career possibilities be available.

Career Planning — The aim of career planning is to aid students in making educated decisions regarding course and major selection, and in analyzing their individual skills and interests. They are also taught how to research career fields and to identify occupational and educational opportunities. Each activity is designed to enhance satisfaction with career choice. In addition, a computerized career guidance system helps students identify interests, abilities and values and relate these to the world of work.

Internships — Through credit-bearing internships students are able to explore career possibilities, apply classroom theory to real-life situations, and to develop work-related skills. For more detailed information about internships please see page 16

Placement Assistance — Guidance is offered in formulating career objectives, researching employers and identifying job openings. Workshops on resume writing, job interviewing techniques and job search strategies are offered regularly. An active on-campus recruiting program is maintained as well.

Career Development also offers a part-time job service to assist students in obtaining part-time and summer employment in the greater Burlington area.

The Student Resource Center reflects the Saint Michael's commitment to educating the total person—body, mind and spirit.

ACTIVITIES

Because the students tend to spend a great deal of their time on the campus, weekends and evenings are often busy with a number of different activities. The activities and clubs available at Saint Michael's are as diverse as the students involved in them.

Students are assisted and supported in the planning and execution of many activities by the Student Activities Director and an activities budget drawn from student fees. With this support most planned events on the campus are conceived and carried out by the student body. Weekend events are planned to coincide with the seasons, including Dorm Daze, Winter Weekend and Spring Weekend. Semiformals, field days and entertainment are all part of the festivities. During the spring, parents are invited to learn more about Saint Michael's, visit their children and just have fun at Parent's Weekend. Although these are special programs, most weekends witness special events ranging from parties and films to concerts and sporting events.

The **Student Association** is the official governing body of the Saint Michael's College student community. The Student Association has three major focuses: educational and social programming, college governance, and information exchange. The S.A. allocates funds for most of the student clubs and organizations on campus and works diligently to keep the lines of communication open between students and campus administration.

Allot Student Center houses offices for such groups as the newspaper, yearbook and Student Association. The student-controlled **Allot Governing Board** plans educational, social and cultural events for the student center; and a lounge, snack bar, and the Rathskeller provide plenty of space for socializing.

The Student Association allocates funds for many other student groups on the campus, one of which is the campus radio station, **WWPV-FM** (100 watts). The station, run in conjunction with the Journalism Department, provides an opportunity for students to gain experience in broadcasting, management and administration. *The Defender*, a weekly campus newspaper, *The Devil's Advocate*, a twice-a-semester alternative newspaper, and the *Onion River Review*, a literary magazine, are publications in which students may test and refine their writing skills. The student publications enjoy First Amendment Rights and strive to work always within the highest professional standards and guidelines.

Through educational, social, and cultural programming, Saint Michael's College works to raise awareness of cultural diversity. In addition to these events, the College has supported the creation of the Martin Luther King Association and the Diversity Coalition in order to promote harmony and understanding. Saint Michael's administrators, faculty and students are committed to appreciating differences in order to make the community a better place in which to live.

Volunteer work is an integral part of the lives of many Saint Michael's students. It is estimated that over 700 students are involved in volunteer programs each year. One of the best-known groups of student volunteers is our **Fire and Rescue Squad**. These highly-trained students provide emergency medical care and transportation not only for members of the Saint Michael's community, but for residents of surrounding towns and villages. On duty 365 days a year, these dedicated men and women make over 1,200 calls annually.

Through **M.O.V.E. (Mobilization of Volunteer Effort)**, under the direction of Campus Ministry, the Saint Michael's College community provides services to all segments of Chittenden County, especially the poor and disenfranchised. The Little Brother/Little Sister Program, Service for Temporary Relief, and Service for Youth Development are only a few of the projects that invite the Saint Michael's College student to experience the enjoyment of service. (See page 31.)

ATHLETICS

Saint Michael's College sponsors athletic activities on the varsity and intramural level for both men and women. The Vincent C. Ross Sports Center is a topnotch facility with a 2,400 seat gymnasium and a six-lane swimming pool with a one-meter diving board. Playing fields, outdoor tennis courts and running trails provide plenty of space for athletic activities. A second gymnasium at the North Campus is used for hockey and other recreational sports programs throughout the year.

The College is a member of the NCAA, competing primarily on the Division II level of the ECAC, and of the Northeast 10 Conference.

Men's varsity sports include baseball, basketball, cross-country, golf, ice hockey*, lacrosse*, skiing, soccer, swimming, and tennis.

Women's varsity sports include basketball, cross-country, field hockey*, lacrosse*, skiing, soccer, softball, swimming, tennis, and volleyball.

Saint Michael's has a long history of competing against some of the best teams in the East. Members of the Northeast-10 include: A.I.C., Assumption, Bentley, Bryant, Merrimack, Quinnipiac, Saint Anselm, Springfield, and Stonehill. Other competitors include: Adelphi, SUNY at Albany, Bates, Boston College, Clarkson, Connecticut College, Harvard, Lemoine, M.I.T., Middlebury, New Hampshire College, Norwich, Pace, Skidmore, St. Lawrence, SUNY-Plattsburgh, UMass-Boston, University of Vermont, and Villanova, among others.

The intramural or recreational sports program includes something for everyone, from a number of levels of basketball league competition to tennis or aerobics. The facilities of the athletic center, playing fields and running/fitness trails are also available.



* Indicates Division III competitors.

FINANCIAL INFORMATION

The following fees** are required of all full-time students. The amounts shown are for the entire year, half of them due at the beginning of each semester (August and December). No student will graduate or receive grades or transcripts of records unless all financial obligations have been met.

UNDERGRADUATE TUITION AND FEES

Application Fee - An application fee of \$30 is charged to all applicants. This fee is not refundable and must be paid before the application is processed.

Deposits - When a student is accepted for matriculation at Saint Michael's College he/she will be asked to make a guarantee deposit of \$300 within a specified time after receiving notice of acceptance. This deposit will be applied to the initial semester's tuition bill. **THIS FEE IS NOT REFUNDABLE.**

Returning students will make a deposit of \$300 *to preregister for courses and to partake in room draw in March*. This amount will be credited to the student's account as part payment of charges when billed.

Annual College Expenses

Tuition (new students)	\$11,800
Tuition (students entering prior to Fall 1990)	\$10,600
Student Activities Fee (includes student social activities)	100
Room (standard, double)	3,225
Board (21-meal plan)	2,175
Total (double occupancy room/21-meal plan- new students)	\$17,300
Total (double occupancy room/21-meal plan- students entering prior to Fall, 1990)	\$16,100
Single Room	3,450
Preferred Housing	
Ethan Allen Apartments	3,640
Hodson Hall	3,950
Townhouse Complex ***	3,950
Board Options	
21-Meal Plan (weekly)	2,175
13-Meal Plan (weekly)	2,025

TUITION

Students registered for 12 credit hours or more are full-time students and their estimated expenses are listed in the fee schedule. **Students registered for less than 12 credits are charged per credit. This charge is \$400 per credit or audit.**

** Fees are subject to approval by the College Board of Trustees and subject to change without notification

*** This charge includes a fee of \$350 to cover energy costs. Student conservation efforts in each apartment may result in an energy rebate at the end of the academic year.

Full-time students whose quality point average was 3.0 at the end of the previous semester may petition the Dean of the Undergraduate College to take more than 18 credits in a semester without charge.

ROOM AND BOARD

Room (double) and board charges for the standard College living centers are \$5,400 for the year, payable \$2,700 per semester. This includes 21 meals per week. Both single rooms and preferred housing have differential charges, as noted in the fee schedule.

All students living in College housing, with the **exception** of those living in the Townhouse complex, Ethan Allen Apartments and Hodson Hall, are required to take meals (21- or 13-meal per week plan) in the College dining hall.

Students who do not reside on campus may elect to take their meals in the College dining hall. Individual meal tickets may be purchased by any student at the food service office.

The College provides a linen and blanket rental service for students at a nominal fee. Reservations for linen and blankets may be made upon arrival.

Expenses listed here are estimates and are subject to change.

FEES

The student activities fee of \$100 is self-imposed by the students. The proceeds are given to the Student Association to fund certain activities designated by the students.

A *graduation fee* of \$55, charged to all seniors, covers the expenses of the diploma and a cap and gown for commencement. This fee is payable even if a graduate does not attend the commencement exercises.

The College reserves the right to withhold registration material, the degree, and all information regarding the record, including transcript, of any student who is in arrears in the payment of fees or other charges, including student loans and dining and housing charges.

A *laboratory fee* of \$45 each semester is charged for each of the courses in laboratory science.

A *journalism fee*, specified in the course descriptions, is charged for some courses.

A *studio fee*, specified in the course descriptions, is charged for some art courses.

A *late registration fee* of \$25 is charged to students who are late in registering at the beginning of the semester.

A *cooperating artist fee* of \$420 per credit is charged to those students registered for Private Study with a Cooperating Artist through the Department of Fine Arts. Registration must be made at the beginning of each semester; contact the Chair, Fine Arts Department.

Change of Course or Section — Students may request a change of course or section up to and including registration day of either term without charge or penalty. They may also make such requests after one class meeting during the first week of class, in either term, without charge. A \$5 fee, payable at the time of the request, will be charged for all course changes made after the first week of class. If the change cannot be approved the fee will be refunded. The last days for course or section changes are September 9 for the Fall 1992 semester and January 19 for the Spring 1993 semester.

Additional Courses — Extra courses carried for credit or as an audit by upperclass students are charged at the rate of \$200 per credit hour.

The charge for a non-matriculated student to audit or take for credit an undergraduate course is \$400 per credit.

HEALTH INSURANCE

All full-time undergraduate students are required to carry health insurance. Parents are encouraged to check company or personal health plans to see if their son or daughter is covered under the provisions of the plan. If not, an application for the College hospital-medical-surgical plan must be completed and returned to Student Accounts prior to fall registration. An application and brochure detailing the plan is available with the first semester billing or in the Student Accounts Office.

The College is not responsible for expenses arising out of sports-related injury or illness. Accident insurance, subject to a \$1,500 deductible payment and a \$100,000 policy limit, is provided for varsity athletes.

TEXTBOOKS AND SUPPLIES

Each student is responsible for purchasing his/her own textbooks and supplies from the College bookstore. The estimated cost of all textbooks and supplies for the academic year is \$350. This amount will vary according to each program of study in which the student is enrolled.

PAYMENT OF FEES

All general fees are to be paid in full on due date prior to the beginning of each semester upon receipt of a statement from Saint Michael's College. Money orders or bank drafts should be made payable to Saint Michael's College and sent directly to the Student Accounts Office. A \$25 fee will be assessed to a student's account for all checks on tuition payments returned.

For those who prefer to pay educational expenses in monthly installments, Saint Michael's College has approved the following plans:

1. Knight Insurance Agency, Inc.

Insured Tuition Payment Plan

Boylston Street

Boston, MA 02116

Telephone 1-800-225-6783

2. Academic Management Service

1110 Central Ave

Pawtucket, RI 02861

Telephone 1-800-531-4300

3. The Tuition Plan

57 Reginal Drive

Concord, NH 03301

Telephone 1-800-258-3640

Students contract with one of these companies to manage their payment plan. Detailed information concerning these plans is mailed to parents each summer.

Special fees may have to be paid by the student after registration since many of the fees are determined only at registration.

With regard to the payment of fees the following regulations should be carefully noted:

1. No reduction in semester fees is made on account of the late entrance of a student.
2. All accounts are due and payable on the due date shown on the statement. Failure to make timely payment will subject the student's account to a late payment fee and may prevent a student from registering.
3. If a student leaves the College for any reason without having settled all his/her accounts, any request for transcripts, reports of grades, information concerning academic or disciplinary standing, et cetera, will not be honored by the College. Diplomas of graduating seniors will not be released until accounts have been fully settled.
4. Any scholarship awarded by the College, or financial aid programs over which the College exercises control, such as Perkins Loan funds, is credited to the student's account equally over both semesters. If a student is awarded \$400, for example, \$200 will be applied to the first semester fees and \$200 toward the second semester fees.
5. Unless a student has already paid his/her accounts in full, any money earned under the student aid program may be credited to his/her account.

REFUND OF FEES

A student who withdraws from Saint Michael's must notify the Registrar in writing. Merely ceasing to attend classes does not constitute official withdrawal. A student who leaves the College without completing the withdrawal form or who is suspended or dismissed from the College is not entitled to a refund. The date of the official notice of withdrawal received by the Registrar is the date used in computing any refund. Such refund, assuming that all financial obligations for the year have been met, will be computed on tuition and room as shown in the chart below. Student activity fees will not be refunded. The advance deposit of \$300 for returning students is refundable until June 15. After June 15 the deposit will be forfeited; however, any payments in excess of the \$300 will be refunded.

Board charges for unused full weeks will be refunded for those students withdrawing from the College with proper notification to the Registrar, and the surrender of the I.D. and meal card to the Student Accounts Office.

FEE REFUND SCHEDULE

Withdrawal Within # of Weeks of Start of Semester	Dates	Dates	% Refund
	1st Semester	2nd Semester	
2	9-15-92	1-25-93	80%
3	9-22-92	2-01-93	60%
4	9-29-92	2-08-93	40%
5	10-06-92	2-15-93	20%
after 5th			No Refund

EMERGENCY LOAN

Short-term small loans are made available, without interest, to students who experience unexpected emergencies. For further information contact the Bursar's Office.

FINANCIAL AID

Saint Michael's college gives *all* students an equal opportunity for financial aid, regardless of race, color, religion, age, sex, national or ethnic origin, or handicap.

While Saint Michael's College subscribes to the philosophy that the primary responsibility of meeting costs of a college education rests with the family, it also realizes that under present economic conditions there are families who do not have available means to send their children to a private college. In recognition of this fact, Saint Michael's College uses every possible means to bridge the gap that may exist between family resources and college expenditures.

Financial aid, consisting of scholarships, grants, loans, and work opportunities, is granted to students who cannot provide the full cost of a college education through their own and their families' reasonable efforts. The primary purpose of financial aid is to provide assistance to students who, without such aid, would be unable to attend college.

The family is expected to make a maximum effort to assist the student with college expenses, and any assistance should be viewed only as supplementary to the efforts of the family.

Financial Aid at Saint Michael's College is offered on the basis of financial need as computed by the College Scholarship Service, the American College Testing Program, or any other agency approved by the Federal Government for determining student financial need. Some of the factors that are taken into consideration in determining the family's financial strength are: current income, number of dependents, other educational expenses, debt, retirement needs and unusual circumstances.

All aid recipients must file for renewal each year. A student may assume that Saint Michael's College will provide comparable financial assistance in subsequent years. However, as family circumstances and/or availability of Federal, State, and Institutional funding change, so may the amount or distribution of financial aid.

Most financial aid is offered on the basis of financial need. There are three types of financial aid: (1) Grants and Scholarships — awards which do not have to be repaid; (2) Loans — money borrowed which must be repaid; (3) Work-Study — part-time employment opportunity which covers a portion of college costs.

In order to receive/retain College, Federal and State grants, loans and work-study assistance, the recipient must have at least a "C" average or its equivalent or academic requirements consistent with the requirements for graduation, as determined by Saint Michael's College, at the end of the second year.

APPLICATION PROCEDURE

Entering Freshmen

1. File an application for admission with the Dean of Admission. Complete the Financial Aid Application that is enclosed with the Admission Application and return the completed Financial Aid Application to the Director of Student Financial Aid no later than **March 15, 1992**.
2. All applicants must mail complete, signed copies of **their parents' and their own 1991 Federal Income Tax Returns** to the Financial Aid Office by **March 15, 1992**.

3. Complete a **Financial Aid Form** and submit to the College Scholarship Service, Princeton, New Jersey. It generally takes four to six weeks for this form to be processed and sent to the Financial Aid Office. Therefore, families should submit the completed form to the College Scholarship Service well in advance of the March 15 deadline.

Upperclass Students

1. The applicant should obtain a **Financial Aid Form** from the Financial Aid Office; forms will be available prior to Christmas vacation. This procedure must be followed for each year you wish to be considered for aid.
2. All applicants must mail complete, signed copies of **their parents' and their own 1991 Federal Income Tax Returns** to the Financial Aid Office by **March 15, 1992**.
3. The **Financial Aid Form** should be completed by the applicant and his/her family and submitted to the College Scholarship Service, Princeton, New Jersey well in advance of the **March 15** deadline.

GRANTS

Grants are awarded to students who, without such assistance would be unable to attend Saint Michael's College. The basic requirement for consideration is financial need and good academic standing.

Saint Michael's College Grants-in-Aid are awarded to students who have financial need and a good academic record.

Supplemental Educational Opportunity Grants are sponsored by the Federal Government and are administered by Saint Michael's College. They are awarded to students showing exceptional financial need.

Pell Grant — You may apply for this grant if you are an undergraduate student enrolled on at least a half-time basis in a program of study which is six months in length or longer. Application is through the **Financial Aid Form**.

State Student Assistance Programs — Students are encouraged to apply for such assistance and are supported in the applications by Saint Michael's College. Applications and brochures are available from your high school guidance counselor or the Financial Aid Office.

Family Grants are awarded when two or more dependent children of the same family are simultaneously enrolled as full-time students during a given semester in the undergraduate program at Saint Michael's College. A \$1,000 grant (\$500 per semester) will be divided equally among the two children attending Saint Michael's College. When a third child attends Saint Michael's simultaneously, the grant shall be \$2,000 (\$666 per semester) divided equally. If any sibling is receiving a full tuition scholarship, he/she is not eligible for the Family Grant.

PRESIDENTIAL SCHOLARSHIPS

A limited number of Presidential Scholarships, covering the cost of tuition per annum, are given each year by Saint Michael's College. Students receiving such scholarships must maintain a quality point average of at least 3.0 their freshman year, and 3.0 each semester thereafter. Failure to maintain this average will result in loss of the scholarship. These scholarships must be applied toward tuition at Saint Michael's College and are not transferable to another college. The Admission Committee will submit a list of eligible candidates to the Financial Aid Committee.

VERMONT PARISH SCHOLARSHIPS

Each parish pastor in the Catholic Diocese of Vermont may select one of his parishioners to receive a tuition scholarship of up to \$4,000 over four years (up to \$1,000 per year) at Saint Michael's College. The amount is determined by financial need with no recipient receiving less than \$2,000 over four years (\$500 per year). Eligible candidates are high school seniors or transfer students who will be enrolling at Saint Michael's College for the fall semester. Candidates must indicate interest in the scholarship to their pastor. Nominations must be received by the Financial Aid Office by April 1. The Scholarship must be applied to tuition only at Saint Michael's College. The student must be a full-time undergraduate student and satisfactory academic progress must be maintained in order to retain the scholarship for four years.

ATHLETIC SCHOLARSHIPS

The names of possible recipients will be submitted to the Financial Aid Committee by the Director of Athletics. The Financial Aid Office will inform students of awards and of the regulations set forth in the constitution of the National Collegiate Athletic Association.

AFROTC SCHOLARSHIP PROGRAM

Established under Public Law in 1964, this program awards scholarships on a competitive basis to those applicants who have at least a 2.5 cumulative grade point average and pass the Air Force Officer Training Test and Air Force physical exam. High school seniors must submit applications for four-year scholarships by fall of the senior year. (Application forms may be obtained from the Department of Aerospace Studies, Saint Michael's College.) Freshmen and sophomores at Saint Michael's College should apply for three- and two-year scholarships, respectively, by contacting the Department of Aerospace Studies. The scholarships may include full tuition, books, laboratory fees, plus tax-free subsistence pay of \$100 per month.

ARMY ROTC SCHOLARSHIP PROGRAM

Saint Michael's students enrolled in the University of Vermont Military Studies courses are eligible to compete for Army ROTC Scholarships. The scholarships, up to \$8,000 or 80% tuition, whichever is higher, include fees, books and classroom supplies, plus a tax-free subsistence allowance of \$100 per month. Interested students should contact the Department of Military Studies, University of Vermont or call 802-655-5610.

THE TUITION EXCHANGE PLAN

Students whose parents are employed by institutions of higher education that participate in The Tuition Exchange Plan may be eligible for tuition remission. Those students should check with their parent's place of employment.

ENDOWED SCHOLARSHIPS

The Reverend J. F. Audet Scholarships (1906,1917) are awarded to needy and deserving students from St. Francis Xavier Parish of Winooski, Vermont.

The Urban L. Bergeron Scholarship (1988) is awarded to a member of the freshman class. The student must be a Vermont resident from Chittenden County who has demonstrated financial need. The scholarship may be renewed annually for up to three additional years, contingent upon satisfactory academic progress. Ben

Bergeron, SMC Class of 1939, is an Emeritus member of the College's Board of Trustees.

The Harmon Bove Memorial Scholarship (1990) was established by the Vermont Sportswriters and Sportscasters Association in honor of Harmon Bove who sacrificed his life in the Vietnam War. The award recognizes Vermont students pursuing a journalism education. Freshmen and sophomores are eligible while preference is given to incoming freshmen. Candidates should have an interest in sports, either as a player, manager or writer.

The Christopher G. Brooks Memorial Scholarship was established by Mr. and Mrs. William T. Brooks of Hempstead, New York, in the name of their son Chris, a member of the Class of 1979. The Scholarship receives support from the Brooks family and members of the Class of 1979.

The Thomas J. and Marie W. Burke Scholarships (1962) are awarded every year, first to American Blacks from southern states, or, for lack of such candidates, to any students of promise who would not otherwise be able to benefit from a Saint Michael's College education.

The Monsignor W. J. Cain and Paul Cain Memorial Scholarship is awarded to a needy student resident of the State of Vermont.

The Vermont State Court of Catholic Daughters of America provides an annual scholarship of \$100 to a needy woman student.

The Catholic Order of Foresters Scholarship (1914) is awarded to a Vermont student, preferably a Forester's son, who is a candidate for the priesthood. This scholarship, founded by the State Court, Catholic Order of Foresters, is good for two years at Saint Michael's College and provides a stipend of \$300 per year. Applications must be filed with the Chancery Office, 351 North Ave., Burlington, Vermont.

The Guy J. Chamberlain B.A. '50 Scholarship Fund was established through a bequest in 1986. Awards are made to students based upon financial need and academic ability.

The Cioffi Covenant House Scholarship (1988) is awarded to a needy and deserving freshman and is renewable through the student's senior year. The scholarship is made possible through the generosity of Mr. Ralph Cioffi, Class of 1978.

The Doc Citarella Scholarship (1989) is awarded to a needy student. Preference is given to an incoming freshman with high academic promise, combined with potential to contribute to student life. The scholarship is named for Professor Emeritus Armand Citarella. It is made possible through the generosity of friends, family, and alumni, in particular, Dr. Robert Tobin and Mr. Richard Endrelunas, Class of 1964.

The Edwin W. Conlan Scholarships (1973) are awarded to deserving students.

The Alice F. Conway Scholarships (1973) are awarded to deserving students.

The Helen and Leo Croteau Scholarships (1989) are awarded to needy and deserving students. These scholarships are made possible through the generosity of Helen and Leo Croteau, lifelong friends of the College and educators themselves. Leo was a member of the Class of 1923.

The Class of 1989 Memorial Award established by the Class of 1989 in memory of Brian Varjabedian, Jeff Houstin and other deceased classmates. Preference is given to seniors with financial need who have been involved in either Saint Michael's College or other community activities. A formal application process exists.

The Crown and Sword Society, a service organization at Saint Michael's College, makes an annual award of \$500 to \$1,000 to a needy student who is active in serving the needs of the community both on and off campus. The Financial Aid Office is responsible for selection.

The Mary R. Derway Scholarship (1952) is used as a tuition scholarship or scholarships for students who are otherwise financially unable to attend Saint Michael's College. Preference is given to young men aspiring to the priesthood, who, in the judgment of the Committee on Scholarships, are considered most worthy of such assistance.

The Thomas Dion Scholarship (1990), established through the generosity of Richard Tarrant '65, honors the memory of Tom Dion, a graduate of Rice Memorial High School who overcame significant obstacles to achieve his education. The scholarship serves to recognize and assist students from Rice Memorial High School in South Burlington, Vermont in attending Saint Michael's College.

The John D. Donoghue Scholarships are awarded to juniors and seniors at Saint Michael's College with proven academic ability and financial need in the majors of music and/or journalism. The scholarship is made possible through the benevolence of John D. Donoghue, SMC Class of 1932, his family and friends.

The Colleen M. Doyle Scholarship (1982) was established in 1982 by friends and relatives in memory of Colleen M. Doyle, Class of 1978. The \$1,000 scholarship rewards scholastic and athletic achievement. Students in good academic standing apply in their sophomore year with the scholarship to be awarded for use in their junior year. The Colleen M. Doyle Scholarship Committee will make the final decision based on written applications by candidates.

The Rev. Gerald E. Dupont, S.S.E., Tuition Scholarship will be awarded to one member of the freshman class covering one-half the cost of tuition per annum. Students receiving such a scholarship must maintain a quality point average of at least 3.0 in their freshman year, and 3.0 each semester thereafter. Failure to maintain this average will result in loss of the scholarship.

The Lawrence J. and Margaret B. Early Scholarships (1977) are awarded to assist worthy, needy students preparing to become physicians and priests. Preference is given to students sponsored by the Southern Missions of the Society of St. Edmund.

The Edmundite Honorary Scholarships are awarded to sophomores, juniors, and seniors who maintain a 3.25 or higher quality point average. Typically one to ten scholarships are awarded per year, depending upon available funds. Eligible students may apply by submitting a letter requesting consideration to the Financial Aid Office.

The Henry G. Fairbanks Scholarships in the Fine Arts are awarded to needy and deserving students who display interests in reviewing, promoting and reporting on the fine arts. Dr. Fairbanks was an eloquent teacher of English, history and speech who served the College for 35 years.

The Louis B. Falcetti Memorial Scholarship (1991) is awarded to academically promising students from the greater Springfield/Holyoke, Massachusetts area. The fund was created by Cesare Falcetti in honor of his brother Lou Falcetti, Class of 1939.

The Louis E. Farrell Scholarship (1990) was established to recognize outstanding scholars from Vermont with high academic potential. The scholarship is made possible through the generosity of Louis "Skip" Farrell, Class of 1977.

The Phil David Fine Scholarship Fund (1990) was established through the will of former College Trustee and Honorary Degree Recipient Phil David Fine, Esq., of Boston, Massachusetts. Recipients of this general scholarship fund will be selected by the College in accordance with Mr. Fine's intentions.

The Desiree L. Franklin Scholarship Funds are awarded to needy and deserving students.

The Ector P. Gobie Scholarship Fund (1979) is to be used for a student studying for the priesthood.

The Dr. Gilbert Grady Scholarship (1986) established by family, friends and students, is in honor of the College's former professor of chemistry. Outstanding science students, with preference for chemistry majors, will be considered for the annual award.

The Peter "Buck" Healy Scholarship (1974) is awarded to a student who is in good academic standing and has at least a 3.0 overall average. Financial need must be demonstrated. Students with a physical handicap receive special consideration. Freshmen are not eligible. This scholarship was founded by the Class of 1974.

The Heinrich Journalism Scholarships are awarded to a member of the freshman class and a member of the junior class majoring in journalism. The awards are made possible through the generosity of Frank and Patricia Heinrich, long-time friends of Saint Michael's College. A former vice-president of the Burlington Free Press, Mr. Heinrich was helpful in establishing the Gannett Corporation-funded journalism program at the College. Students must demonstrate financial need and complete the financial aid application process (see financial aid application procedure) by April 1.

Freshmen — must be accepted for admission before March 15. The Admissions Committee will submit a list of eligible candidates to the Financial Aid Committee.

Juniors — must submit written application material to the Director of Financial Aid.

Students receiving such a scholarship must maintain a quality point average of at least 3.0. Failure to maintain this average will result in the loss of the scholarship.

The Kinsella Memorial Scholarship (1935) is awarded to a student from St. Peter Parish of Rutland, Vermont, who wishes to prepare for the priesthood.

The Knights of Columbus Scholarship is awarded to a male student who feels called to the priesthood. This scholarship was founded in 1929 and is provided by the Vermont State Council. Applications must be filed with the Chancery Office, 351 North Ave., Burlington, Vermont.

The Lamoille County Scholarship (1956) is awarded to needy students.

The Josephine Lanoue Scholarships (1966) are awarded to needy and deserving students from Vermont.

The Reverend William Lonergan Scholarship (1911) is awarded to a needy student from Rutland, Vermont, studying for the priesthood.

The Albert and Agnes Luck Scholarship Fund (1985) provides approximately \$1,000 annually to deserving students who continue to meet both the financial need and academic requirements as determined by the College's Financial Aid Office. Preference for this award will be given to students from St. John's Academy or Mount Assumption Institute or Plattsburgh Senior High School, all of Plattsburgh, New York, who meet the College's entrance requirements. If, during any particular year, there is no student who applies or is eligible from any of these schools, the award will be made to any student who fulfills both the need and academic criteria. It is renewable for four years of undergraduate work and is allocated on a semester-by-semester-basis to full time students.

The Margaret E. McCarthy Scholarships (1979) are awarded to Fine Arts students. Mrs. McCarthy was awarded an honorary degree in 1975 in recognition of her devotion to the arts and education.

The Michael McCarthy Scholarships are awarded to needy students. The retired Chairman of the Board of Merrill Lynch, Mr. McCarthy served the College as a member of the Board of Trustees.

The Joseph W. McGee Scholarship (1978) is for the education of needy priests attending Saint Michael's.

The Elizabeth DeCamp McNerny Scholarships (1986) were established by the trustees of the Ira W. DeCamp Foundation. Partial scholarships are awarded to three to five students who are majoring in either biology, chemistry, or biochemistry and who maintain a 3.0 grade point average per semester in their majors and an overall 3.0 average each year. A further stipulation of the award is that an Elizabeth DeCamp McNerny Scholar should assume a moral obligation to support Saint Michael's College by voluntary service and/or contributions.

The Reverend Paul A. Morin, S.S.E. Scholarship (1986) was established through the generosity of F. M. "Pete" Taylor, Class of 1959, in honor of the former Academic Dean at Saint Michael's College from 1958-1965. The \$1,000 scholarship is awarded to a member of the freshman class. Students receiving the scholarship must maintain a quality point average with high promise for academic and career success. Preference is given to students who are undecided in their majors.

The John Michael Orgera Memorial Scholarship (1979) was established by Dr. and Mrs. Walter L. Orgera of Stamford, Connecticut, in the name of their son, John Michael, a member of the Class of 1982.

The Reverend Leon Paulin Scholarships are awarded to needy and deserving students with majors in art, drama, music or anyone exhibiting talent following at least three courses in the above majors. Students must maintain a 3.0 quality point average. Fr. Paulin, S.S.E., '37 was a revered professor of French and religious studies.

The Reverend Pauliot Scholarship (1926) is awarded to a needy student from Essex Junction, Vermont.

The Reverend Norbert Proulx Scholarship (1922) is awarded to a needy student of St. Joseph Parish of Burlington, Vermont, or of Immaculate Heart of Mary Parish of Rutland, Vermont, or of Sacred Heart of Jesus Parish of West Rutland, Vermont, or of Our Lady Star of the Sea Parish of Newport, Vermont.

The Reverend C. E. Provost Scholarship (1918) is awarded to a needy student of the Sacred Heart Parish of Bennington, Vermont.

The L. Elizabeth and Napoleon J. St. Pierre Scholarship (1975). Preference is given to such aspirants to the priesthood who are members of St. Joseph's Parish of Burlington, Vermont, and other French-speaking aspirants in the Diocese of Vermont.

The Olin Scott Fund (1989) was established to provide student aid to Vermont male students in recognition of the benefactor's appreciation for education to equip them for upright and useful lives.

The Right Reverend James D. Shannon Scholarship (1936) is awarded to freshman and sophomore students studying for the priesthood who are members of the following Vermont parishes: St. John the Baptist of Enosburg Falls; St. Patrick of Fairfield; St. Thomas of Underhill Center; St. Mary of Middlebury; St. Charles of Bellows Falls; St. Francis de Sales of Bennington. Preference is given in order of the parishes named. The pastors of the above-named parishes must recommend the beneficiaries of this scholarship. The selection of the candidates rests in the first instance with the Bishop of Burlington. If the Bishop makes no selection, the Committee on Scholarships chooses the candidates.

The Celine Slator Memorial Award is awarded to a student majoring in Journalism. The student must be a Vermont resident who displays an interest in reviewing, promoting and reporting on the arts. Preference will be given to women with outstanding academic ability in their junior or senior year demonstrating financial need.

The Don Sutton Fire and Rescue Scholarship (1988) was established through the generosity of Fran and Mary Ritz, Susan Ritz '77, and alumni, family and friends in honor of the founder of Saint Michael's Fire and Rescue. The fund provides scholarship assistance to students involved in Fire and Rescue beginning their sophomore year.

The Beth Walsh Memorial Scholarship (1988) is awarded to a member of the freshman class. The student must maintain a quality point average of at least 3.0 their freshman year and 3.0 each semester thereafter. The scholarship, in honor of his daughter, is made possible by former trustee Donald Walsh, Esq., SMC Class of 1955, and the family and friends of Beth Walsh.

The Cleveland A. Williams Memorial Scholarship will be awarded to one member of the freshman class. Students receiving such a scholarship must maintain a quality point average of 3.0 their freshman year and 3.0 each semester thereafter. Failure to maintain this average will result in loss of the scholarship.

The Michael and Zarifa Ziter Memorial Scholarship (1981) was established through the efforts of Fr. Nelson B. Ziter, son of the above. The scholarship is awarded to needy and deserving U.S. citizens. Preference is given to students of Lebanese descent. Selection is made by the Society of St. Edmund.

COLLEGE WORK-STUDY PROGRAM

The College Work-Study Program is sponsored by the federal government and is administered by Saint Michael's College. The program provides part-time employment on campus for students who are in need of earnings from such employment to pursue a course of study at Saint Michael's College.

LOANS

Perkins Loans (formerly known as National Direct Student Loans) are an important financial aid resource available to students who need assistance and who are willing to pay for part of their current education with their future earnings. Loans may be granted to provide supplementary assistance to students receiving other forms of aid, or to help students with genuine need where scholarship and grant funds are not available. While a student is enrolled in at least one-half of the normal academic workload no interest is paid on his/her loan and no repayment is expected.

Repayment begins nine months after graduation or when a student ceases to carry at least one-half the normal academic workload. There are provisions for deferment while attending graduate school; serving in the Armed Forces, Peace Corps, VISTA; or teaching (on a full-time basis) handicapped children or in low-income areas as defined in the *Federal Register*. The loans bear interest at the rate of five percent per year on the unpaid balance.

Stafford Loan Program [formerly known as Guaranteed Student Loan Program (GSL)]

A Stafford Loan is a low-interest loan made to a student borrower by a bank, credit union, savings and loan association or a state guarantee agency. For new borrowers who receive loans for periods of enrollment beginning on or after July 1, 1988, the interest rate is 8 percent for the first four years of repayment and 10 percent after that. Freshmen and sophomores may borrow up to \$2,625 per year. Juniors and seniors may borrow a maximum of \$4,000 per year. The total outstanding Stafford debt allowed for undergraduate and graduate studies combined is \$54,750.

Students applying for the Stafford Loan must file a Financial Aid Form to establish eligibility for the loan. In some cases, the amount of a student's need may limit the size of the Stafford Loan. Students who do not meet financial need criteria will not receive a Stafford Loan.

Interest is paid by the federal government while the student is attending college and the principal is deferred while the student remains in school. Repayment begins six months after the student ceases at least half-time enrollment.

Stafford Loan applications are available from local banks, credit unions, savings and loan associations or state higher education agencies.

Parent Loans for Undergraduate Students (PLUS) and Supplemental Loans for Students (SLS)

Parent loans are meant to provide additional funds for educational expenses. These loans are made to parents of undergraduate, dependent students. Borrowers should apply for PLUS loans in the same manner as Stafford Loans. Parents of dependent undergraduates may borrow up to \$4,000 per year, to a total of \$20,000, for each child who is enrolled at least half time and is a dependent student. Graduate students and self-supporting students may borrow up to \$4,000 per year through the SLS program, to a total of \$20,000. This amount is in addition to the Stafford Loan limits.

In no case can a PLUS/SLS loan exceed a student's cost of attendance less estimated financial aid.

The maximum interest rate for these loans is 12 percent, but changes annually, so check with your lender. Like Stafford Loans, PLUS/SLS loans are made by a lender such as a bank, credit union, or savings and loan association. PLUS/SLS borrowers generally begin repayment of principal and interest after 60 days from receipt of the loan. Students should contact their lender for applications and deferment information. If you have difficulty finding a lender, you should contact your state guarantee agency.

Saint Michael's College IDEAL-PLUS Program

This program was developed by the College in cooperation with Vermont Student Assistance Corporation to help parents finance their children's education. Modeled around the regular PLUS Program, the SMC IDEAL-PLUS Program makes loans available to parents at no interest while the student is enrolled full time at Saint Michael's College. No payments are required until the student ceases to be a full-time student at Saint Michael's College. Students who apply for financial aid and who show financial need through a need analysis will be considered for the IDEAL-PLUS Loan. A family's eligibility for this subsidy will be calculated at the same time that their eligibility for other aid programs is determined. Families who borrow through the IDEAL-PLUS Program may still be eligible to borrow additional funds through the regular PLUS Program. However, they will only be eligible to borrow the difference between \$4000 (the maximum PLUS loan) and the amount borrowed from the SMC IDEAL-PLUS Program. Saint Michael's College will not subsidize interest on an additional PLUS loan.

INSTITUTIONAL ADVANCEMENT

The Offices of Institutional Advancement — Development, Alumni Relations and Public relations — work together to promote Saint Michael's College throughout the country, to develop and maintain the College's relationship with its alumni and parents and to provide opportunities for these friends to assist the College.

ALUMNI AND PARENT RELATIONS

Saint Michael's has over 15,000 alumni and parents throughout the country, and sponsors educational, social and cultural events during the year for alumni and parents. Annual class reunions, Fall and Winter Homecoming and a Spring Parents Weekend provide opportunities for alumni and parents to return to campus and enjoy a wide variety of events.

DEVELOPMENT PROGRAMS

Saint Michael's has a long history of outstanding financial support from its many friends. Over 40 percent of the College's alumni give to Saint Michael's each year, a rate that is more than twice the national average. Gifts and grants to the Annual Fund from alumni, parents, friends, corporations and foundations, many in support of student financial aid, topped \$2.2 million last year.

Recently the College launched a \$20 million capital campaign to address the capital and financial needs of the 1990s. Construction of a major addition to the Durick Library, which will nearly double the usable space, has begun and is scheduled for completion in 1992. Other facilities projects in the campaign are a modernization of

Cheray Science Hall, improvements to Alliot Student Center, and construction of a field house addition to Ross Sports Center.

The College has also included \$10 million of endowment objectives in the Saint Michael's Campaign, for student scholarships, professorships, library collection and the Campus Ministry program.

PUBLIC RELATIONS

Saint Michael's publishes *Founders Hall* seven times each year, to communicate directly with alumni, parents and friends. In addition, the College's annual report and yearly calendar are sent to the entire College family. The office of public relations also produces publicity materials about student activities, sports contests and results, theatre productions, and other newsworthy events, and develops relationships with local and national media outlets, in an effort to bring Saint Michael's to the larger regional and national community.

THE EDMUNDITE TRUST FUND

Established in 1978 by the Society of Saint Edmund, the purpose of this fund is to promote and foster the growth of our Catholic faith and to minister to the spiritual needs of our student body. The trust fund is supervised by the Superior General of the Society of Saint Edmund, the four Councilors of the Society and the President of the College who meet annually to consider projects such as campus ministry, scholarships, retreats, theology courses and workshops.

For information on any of the above-listed programs please contact:

Vice-President for Institutional Advancement
Saint Michael's College
Winooski Park
Colchester, Vermont 05439
Telephone: 802-654-2557



ACCOUNTING

See description under Department of Business Administration, page 64.

DEPARTMENT OF AEROSPACE STUDIES

LT. COL. DAVID H. TALLEY, *CHAIR*; MAJ. SUAREZ, CAPT. BUTTS

Department of Aerospace Studies courses 101-103 and 201-203 are designed to provide freshmen and sophomores with an orientation and basic understanding of the history of the Air Force and the purpose and mission of the Air Force in today's world. (These one-credit courses may be taken in addition to the standard workload.) Students not receiving ROTC scholarships may take these courses to learn more about Air Force life and job opportunities with no obligation to the Air Force. These courses are open to all academic majors. The 300 and 400 level courses are designed to develop students' basic management skills, communication skills, and their awareness of military-civilian relationships. Upon graduation students will be commissioned as Second Lieutenants in the U.S. Air Force. Students in all college majors may participate in Air Force ROTC. *The 300 and 400 level courses may be used to fulfill elective course requirements.*

101-103 United States Air Force Today

Two semesters

Deals with the Air Force in the contemporary world through a study of the total military force structure, strategic offensive and defensive forces, general purpose forces, and aerospace support forces.

One credit each semester.

201-203 History of Early Aviation and Air Power in the Space Age

Two semesters

Traces the history of air power from balloons and dirigibles through the jet age; historically reviews air power employment in military and non-military operations in support of national objectives; examines the evolution of air power concepts and doctrine.

One credit each semester.

301-303 Introduction to Leadership and Management

*Two semesters, alternate years
Not offered in 1992-93*

An integrated management course emphasizing individual motivational and behavioral processes, leadership, communication, and group dynamics to provide a foundation for professional skills. Surveys the basic management processes involving decision making, use of analytical aids in planning, organizing, communicating, and controlling in a changing environment. Organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the Air Force and other large

organizations. Case studies are used to enhance the learning and communication processes.

Prerequisite: 301 for 303. Three credits each semester.

401-403 National Security Forces in Contemporary American Society

Two semesters, alternate years

A study of U.S. National Security Policy which examines the formulation, organization and implementation of national security; evolution of strategy; management of conflict; and civilian-military interaction. AS 401 is a political science and national security policy course. AS 403 is a professional military education course focusing on officership, the military profession, and military law. The course is designed to provide future Air Force Officers with a background of the U.S. National Security Policy so they can function effectively in today's Air Force.

Prerequisite: 401 for 403 (except for non-ROTC students). Three credits each semester.

AIR FORCE RESERVE OFFICER TRAINING CORPS

The Department of Aerospace Studies provides preprofessional preparation for future Air Force Officers. Participation is open to students in all academic majors. The curriculum is designed to develop career-oriented men and women who can apply their education and AFROTC experience to their initial active duty assignments as Air Force Commissioned Officers. In addition to the formal course of study shown under the Department of Aerospace Studies listing, pilot candidates participate in a three-week Flight Screening Program during the summer between their junior and senior years. Extracurricular activities such as visits to Air Force bases, orientation rides in Air Force aircraft, social activities and honorary society memberships are available. Students who participate in the four-year program and successfully compete for admission into the Professional Officers Course attend a four-week Field Training session at an Air Force base in the summer between the sophomore and junior years. The two-year program is available to students who did not have the opportunity to take the freshman and sophomore ROTC courses or did not elect to do so. It is also available to transfer students who will spend a minimum of two years at Saint Michael's College, either in undergraduate or graduate status. Selection for this program is on a competitive basis. Any students interested in the two-year program should contact the Department of Aerospace Studies during the fall semester of their sophomore year. Those selected will attend a six-week Field Training session at an Air Force base in the summer between their sophomore and junior years, and then, if successful, enter the Professional Officer Course (AS 301-303) during their junior year.

Scholarships: Air Force ROTC Scholarships may provide up to full payment of tuition and laboratory fees, full cost for textbooks, and a tax-free payment of \$100 per month while the student is in school and on scholarship status. High school seniors can apply for the four-year AFROTC College Scholarships. Applications for these four-year scholarships must be submitted by fall of the high school senior year. Three-year and two-year scholarships are available for qualified freshmen and sophomores. A minimum GPA of 2.5 is required, and scholarships are based solely on merit, with academic major considerations heavily weighted. In addition, the applicant must

satisfactorily complete the Officer Qualifying Test and an Air Force physical. These will be scheduled by the Department of Aerospace Studies.

Subsistence Pay: Both scholarship and nonscholarship students in their last two years of AFROTC receive tax-free subsistence pay of \$100 per month.

Uniforms and Textbooks: Uniforms and AFROTC textbooks are furnished at no cost. Students are responsible for the proper care and cleanliness of uniforms in their possession and return of the textbooks.

AFROTC Field Training is offered during the summer between the sophomore and junior years at selected Air Force bases throughout the United States. Students in the four-year program participate in four weeks of field training during the summer between their sophomore and junior years. Students applying for entry into the two-year program must successfully complete six weeks of field training prior to enrollment in AFROTC.

Supplemental courses: All contract cadets must complete certain required supplemental college courses in addition to all Aerospace Studies courses. Freshmen and sophomores on scholarship must complete an English Composition course. All AFROTC students must complete a math reasoning course prior to graduation. Ideally, the course should include the acquisition of a specific skill, e.g., statistics, computer science, calculus, etc. All scholarship students must complete at least one year of a major foreign language or the high school equivalent.

AMERICAN STUDIES PROGRAM

See description under Department of History, page 123.

ANTHROPOLOGY

See description under Department of Sociology, page 188.

ARMY ROTC AT THE UNIVERSITY OF VERMONT

STAFF: LIEUTENANT COLONEL COLLINS, *CHAIR*, MAJORS FROEB, SHEA, CAPTAIN GRAHAM, SERGEANT FIRST CLASS WILLIAMS, MASTER SERGEANT WILSON, STAFF SERGEANT JORDAN, AND SERGEANT DAXTON

MS 1 Fundamentals of National Defense

Fall and Spring

Provides a perspective on U.S. defense policy, military force structure, and their roles in providing for the nation's defense and attaining national objectives.

Prerequisite: First year or sophomore standing or departmental permission. One credit.

MS 2 War and Society

Fall and Spring

War and military systems in historical perspective. Effects of society on war and of war on society; the military thinkers; issues in the control of military force.

Prerequisite: First-year or sophomore standing or departmental permission. Two credits.

MS 3 Simulations and Wargaming **Fall and Spring**

Examines military and non-military use of modeling, simulation, and wargaming. Surveys types of models, simulation, and wargaming in present use. Uses role-playing simulations and existing wargames to play-test selected models.

Prerequisite: First-year or sophomore standing or departmental permission. Three credits

MS 4 Contemporary Military Concepts **Fall and Spring**

Examines uses of military forces viewed against a background of long-range national concerns. Instruction and practical application of skills required of second-year students.

Prerequisite: First-year or sophomore standing or departmental permission. Two credits.

MS 12 Rappelling **Fall and Spring**

Basic instruction in rope management, rope installation and rappelling, consisting of both classroom instruction and outdoor practical exercises.

Prerequisite: First-year or sophomore standing or departmental permission. One credit.

MS 14 Orienteering **Fall and Spring**

Basic introduction to orienteering. Concentration in map, compass and terminology concluding with a moderate level orienteering competition. Classroom instruction and outdoor practical exercises.

Prerequisite: First-year or sophomore standing or departmental permission. One credit

MS 101 Special Studies.

In-depth analysis of topics broached in MS 1,2,3, or 4. Guided research. Student proposes topic.

Two credits.

MS 102 Special Studies

Continuation of 101.

Two credits.

MS 201 Leadership and Management I **Fall**

Fundamentals of leadership and management. Introduction to counseling and communication skills. Military land navigation. Orientation to officer specialty fields. Military professionalism and ethics.

Not offered for graduate credit. Two credits.

MS 202 Leadership and Management II

Spring

Development of leadership skills. Instruction and practical application of skills required of a military leader. Management of a small organization.

Not offered for graduate credit. Two credits.

MS 203 Leadership and Management III

Fall

Study of preparation, conduct, and evaluation of training. Investigates leadership and management dilemmas ethics and morality. Analysis of the military as a profession.

Not offered for graduate credit. Two credits.

MS 204 Leadership and Management IV

Spring

Study of the legal processes and logistics and garrison systems used by the officer to resolve leadership and management problems.

Not offered for graduate credit. Two credits.

Leadership Laboratory

A 2-hour practical training exercise incorporating classroom instruction while developing unit cohesion and leadership techniques.

BIOCHEMISTRY PROGRAM

DR. KATHERINE OLGATI, COORDINATOR

The program in Biochemistry provides a foundation in the biological, chemical and physical sciences, with emphasis on their application to the molecular explanation of the structural and functional dynamics of living systems.

The program prepares the student for graduate studies in biochemistry and, with additional electives, for graduate studies in other areas of biology and chemistry. It provides full preparation for successful admission to the various health-care professional schools.

REQUIRED FOR THE BIOCHEMISTRY MAJOR:

BI101	General Biology (4 credits)
BI103	General Biology (4 credits)
BI223	Genetics (4 credits)
BI225	Cell Biology (4 credits) OR
BI315	Microbiology (4 credits)
BI317	Plant Physiology (4 credits) OR
BI319	General Physiology (4 credits)
CH105	Stoichiometry (5 credits)
CH109	Chemical Bonding & Energetics (5 credits)
CH204	Organic Chemistry (4 credits)
CH206	Organic Chemistry (4 credits)
CH302	Physical Chemistry I (3 credits)
CH304	Physical Chemistry II (4 credits)
CH325	General Biochemistry (4 credits)
CH327	Intermediate Biochemistry (4 credits)
CH329	Advanced Biochemistry (4 credits)

MA109	Calculus I (4 credits)
MA111	Calculus II (4 credits)
MA211	Calculus III (4 credits)
PY210	College Physics (4 credits)
PY212	College Physics (4 credits)
BI410	Seminar (3 credits) OR
CH410	Seminar (3 credits)
Strongly Recommended:	
MA303	Differential Equations (4 credits)

BIOLOGY

101-103 General Biology

Two semesters

A comprehensive introduction to the concepts of biology. Topics include cell structure, cell and tissue types, plant and animal structure and function, classification and taxonomy, plant reproduction and development, evolution, ecology, and behavior. The laboratory provides experience in developing methods of biological observation and experimentation.

Prerequisite: Biology 101 for 103. Four credits each semester. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

223 Genetics

Spring

The study of gene transmission from generation to generation, gene structure and function, and gene behavior in populations. Topics include transmission genetics, chromosome theory of inheritance, gene mapping, nucleic acid structure and function, developmental genetics, and population genetics. The laboratory emphasizes a quantitative approach to topics considered in lecture.

Prerequisites: Biology 101-103, Chemistry 103-107 or 105-109 or permission of instructor. Four credits.

225 Cell Biology

Fall

The study of cell structure and function. Topics include cellular biochemical processes, cell membranes, organelles, the cytoskeleton, nuclear function, cell division, and cell behavior. Lecture and laboratories will emphasize the experimental and quantitative approach.

Prerequisites: Biology 101-03, Chemistry 103-07 or 105-09. Four credits.

315 Microbiology

Fall

A study of the structure, development, growth and physiology of organisms classified as bacteria, algae and fungi; fundamental aspects of virology and immunology. Laboratory explores taxonomy and morphology as well as physiology and biochemistry of microorganisms. An independent research project is part of the laboratory experience.

Prerequisite: Biology 101-103, Chemistry 103-107 or 105-109 or permission of instructor. Four credits.

317 Plant Physiology

Fall

A study of the functions of plants including growth, development, and reproduction. Concepts of bio-engineering and economic botany are discussed. Laboratory experience includes hydroponics, ion analyses, photosynthesis, effects of acid rain on seed and plant growth, and physiological aspects of home and garden plants. An independent research project is part of the laboratory experience.

Prerequisite: Biology 101-103, Chemistry 103-107 or 105-109 or permission of instructor. Four credits.

319 General Physiology

Spring

A comprehensive study of physiological regulation from the level of the cell to that of the integrated organism, with emphasis on the human. The interpretation and significance of experimental data are stressed. The laboratory explores fundamental concepts of cellular and systems physiology.

Prerequisite: Junior standing, Chemistry 103-107 or 105-109. Four credits.

410 Senior Seminar

Fall or Spring

Directed toward specific areas of biological investigation, such as evolution theory, historical and social biology, and molecular studies, but also open to special topics presented by the participants. Relying on group discussion, the seminar emphasizes experimental data and their interpretation.

Three credits.

CHEMISTRY

105 Stoichiometry

Fall

A comprehensive study of quantitative relationships in chemical reactions. The laboratory presents an extensive study of qualitative and quantitative methods of chemical analysis.

Five credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

109 Chemical Bonding and Energetics

Spring

Lectures cover atomic structure, bonding and molecular structure, thermodynamic relationships, reaction kinetics and acid-base theory. The laboratory consists of a continued study of modern instrumental methods of quantitative and qualitative analysis.

Prerequisite: Chemistry 105 or permission of instructor. Five credits.

204-206 Organic Chemistry

Two semesters

A study of organic reactions, with emphasis on functional groups, reactive intermediates, reaction mechanisms, and syntheses. The laboratory consists of an introduction to organic laboratory techniques with emphasis on syntheses, separations, and qualitative analysis by classical and instrumental methods.

Four credits each semester.

302 Physical Chemistry I

Fall

Considers the laws and energy relationships that apply to the description of physical states and chemical processes. It includes a detailed study of thermodynamics, physical states of matter, kinetics, equilibria and modern concepts of atomic and molecular properties.

Prerequisites: Math 103 or equivalent; one year of college physics. Three credits.

304 Physical Chemistry II

Spring

Lectures continue CH 302. The laboratory emphasizes techniques for measuring the physical properties and energy changes of chemical systems.

Prerequisites: as for 302. Four credits.

325 Biochemistry

Fall

An introduction to the molecular basis of structure and function in living organisms. The current concepts of energy transformation, enzyme kinetics and major metabolic pathways and their control are explained. The laboratory employs quantitative methods used in the study of biomolecules.

Prerequisites: Biology 101-103, Chemistry 204-206. Four credits.

327 Biochemistry II

Spring

A continuation of Biochemistry I, this course covers biosynthetic metabolism and its control, nucleic acid biochemistry, protein synthesis, and molecular physiology. Laboratories consist of independent research projects based on concepts covered in Biochemistry I and II.

Prerequisite: Chemistry 325. Four credits.

329 Advanced Biochemistry

Spring

Special topics in biochemistry, molecular biology endocrinology, or immunochemistry.

Prerequisites: Chemistry 325, Chemistry 302-304, or completion of Chemistry 302 and concurrent enrollment in Chemistry 304. Four credits.

410 Seminar

Spring

Familiarizes the student with the literature of biochemistry. Each student will present a series of seminars from current chemical literature. In addition, each student will defend orally an original research proposal. This proposal should demonstrate an appreciation of current biochemical problems and of the experimental methods used in their solution.

Three credits.

MATHEMATICS

109-111 Calculus I and II

Two semesters

Properties of real numbers, topics in analytical trigonometry, plane analytic geometry derivatives and their application, integration and applications of the definite integral, techniques of integration, transcendental functions, infinite series.

Prerequisites: Intermediate algebra and trigonometry or Math 100; for second semester successful completion of first semester. Four credits each semester. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

211 Calculus III

Fall

Continuation of Math 109-111. Polar coordinates, parametric equations, vectors, three dimensional space, partial differentiation, multiple integrals and their applications.

Prerequisite: Mathematics 111. Four credits. NATURAL AND MATHEMATICAL LIBERAL STUDIES REQUIREMENT.

PHYSICS

210-212 College Physics

Two semesters

Develops the concepts of physics with a mathematical sophistication to challenge students with an interest in the physical sciences. The catholicity of physics is emphasized in a study of mechanics, thermodynamics, electricity and magnetism, optics, and modern physics.

Prerequisites: A one-semester course in calculus (Mathematics 103 or equivalent), with a grade of C or better. Successful completion of Physics 210 is required in order to take Physics 212. Four credits each semester NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

DEPARTMENT OF BIOLOGY

DR. DANIEL J. BEAN, *CHAIR*; BAUER, BOZZONE, FACEY, HESSLER, MARTIN

Biology is the scientific investigation of living things at all levels of organization, from the structure and function of biological molecules within cells to the interactions of populations of organisms with each other and with their surroundings. The goals of the Biology major are to provide students with a fundamental understanding of biology at each major level of organization (molecular/cellular, organismal, and population), to develop each student's ability to study the current biological literature, and to provide opportunities for independent research. A sound understanding of chemistry and mathematics is an integral part of the major. Ample flexibility within this framework allows students to choose many of their Biology courses to suit individual interests.

Qualified students are encouraged to carry out original laboratory or field investigations with faculty members during the Senior year. Research internships are also available for students wishing to carry out research at one of a variety of off-campus facilities.

Admission to the Biology major ordinarily requires that the applicant have satisfactorily completed three years of high school mathematics, and one year each of biology, chemistry, and physics. SAT scores, rank in class, academic average and personal recommendations are considered on an individual basis.

REQUIRED COURSES FOR BIOLOGY MAJOR:

- BI101 General Biology (4 credits)
- BI103 General Biology (4 credits)
- BI205 Biological Reading & Writing (3 credits)
- BI410 Seminar (3 credits)

AND CHOOSE eight additional Biology courses including at least one from EACH of the following three groups (4 credits each):

MOLECULAR/CELLULAR:

- BI223 Genetics (4 credits)
- BI225 Cell Biology (4 credits)
- BI301 Biochemistry I (4 credits)
- BI303 Biochemistry II (4 credits)
- BI315 Microbiology (4 credits)
- BI345 Developmental Biology (4 credits)

ORGANISMAL:

- BI207 Vertebrate Biology (4 credits)
- BI209 Invertebrate Biology (4 credits)
- BI315 Microbiology (4 credits)
- BI317 Plant Physiology (4 credits)
- BI319 Animal Physiology (4 credits)
- BI345 Developmental Biology (4 credits)

POPULATION:

- BI206 Field Biology (4 credits)
- BI221 Ecology (4 credits)
- BI223 Genetics (4 credits)

IN ADDITION, CHOOSE:

- CH103 Stoichiometry (4 credits)
- CH107 Chemical Bonding & Energetics (4 credits)
- CH204 Organic Chemistry (4 credits)
- CH206 Organic Chemistry (4 credits)
- MA102 Elementary Statistics (3 credits) **AND**
- MA103 Elements of Calculus (3 credits), **OR**
- MA109 Calculus I (4 credits) **AND**
- MA111 Calculus II (4 credits)

RECOMMENDED for those planning to do post-graduate work in Biology or in health-related professions:

- PY210 College Physics (4 credits) **AND**
- PY212 College Physics (4 credits) **OR**
- PY220 Physics for Biology **AND**
- PY222 Physics for Biology
- BI420 Research

REQUIRED FOR THE BIOLOGY MINOR:

- BI101 General Biology (4 credits)
- BI103 General Biology (4 credits)

AND CHOOSE three additional Biology courses above the 100-level (EXCLUSIVE OF 205, 410 and 420).

A minimum quality grade point average of 2.0 must be maintained for the minor.

101-103 General Biology

Two semesters

A comprehensive introduction to the concepts of biology. Topics include cell structure, cell and tissue types, plant and animal structure and function, classification and taxonomy, plant reproduction, development, biochemistry, genetics, animal reproduction and development, evolution, ecology and behavior. The laboratory is designed to provide the student with fundamental experience in developing methods of biological observation and experimentation.

Required for Biochemistry, Biology and Environmental Science majors and pre-health care career students; others by permission of the department. Prerequisite: Biology 101 for 103. Four credits each semester. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

**105 Biology for Elementary
Education Concentrators**

Fall

An introductory course designed for students concentrating in Elementary Education; assumes no prior preparation in biology or chemistry. Lectures emphasize basic concepts of biology. Laboratories consider fundamentals and various techniques, with application to teaching.

For sophomore Elementary Education majors. Not open to students with credit in Biology 101 or 103. Three credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

Note: Biology 107, 109, 111, 113, 115, 119, and 141 are courses designed for students who are not biology majors. They may not be taken by biology majors or minors except by permission of the department, and will not count toward the major or minor. Each course meets three class hours each week and carries three credits. Some courses may have a two-hour laboratory instead of a third lecture. Interested students are invited to take one or more of these courses. Biology 107, 109, 111 or 113 (but only one) may count as a Natural and Mathematical Sciences Liberal Studies Requirement; others may be taken as electives.

107 Human Biology

Fall or Spring

Lectures consider several biological topics from the perspective of human health and physiology. Topics may include the origin of life, cell structure and function, reproduction and development, the immune response, and how our body systems function in health and disease.

Please see Note above.

109 Human Genetics

Fall or Spring

Provides a comprehensive understanding of the major problems of contemporary biology that are explained and interpreted through the science of genetics. Topics

include the relation of genetics to human issues and the ethical implications of modern genetic technology.

Please see Note above.

111 Principles of Human Nutrition

Fall and Spring

Provides an overview of nutritional concepts and food science theories. Students learn to make judgments about the quality and usefulness of foods and diets. Topics include nutrients and their functions, deficiencies, and excesses; food additives; diet; and nutritional disease.

Please see Note above.

113 Our Green World

Fall or Spring

Topics include the impact of plants on the aesthetic, cultural, social, political, medical, and religious lives of people of the world. Importance of plants as food, clothing, and shelter. Plant structure and function will be integrated with specific topics.

Please see Note above.

115 Environmental Science

Fall or Spring

An introduction to basic principles and concepts important to understanding the complex interactions of our environment. It addresses human impact on environmental processes and discusses issues such as human population growth, availability of food resources, endangered species, energy resources, types of pollution, and links between the environment and human health, economics, and politics.

Please see Note above.

119 Biotechnology and Its Social Consequences

Fall or Spring

Explores scientific and experimental foundations for areas of biological research and inquiry that have impact on human society. Specific topics considered may include genetics, development, cancer, agriculture, medicine, neurobiology, environmental biology, and applications of biotechnology to these areas.

Please see Note above.

141 Animal Behavior

Fall or Spring

Current theories on animal behavior in vertebrates and invertebrates. Emphasis on the work of Lorenz, Von Frisch, Tinbergen, Gould, Wilson, Scott, Palmer and Brown, among others. Topics will include behavior mechanisms in aggression, migration, orientation, mimicry, biological clocks, social organizations and other areas of animal behavior.

Please see Note above.

205 Biological Reading and Writing

Fall and Spring

Reading, writing, discussion and oral presentations in which the student learns to explore the fundamental sources of biological knowledge. The student may extend his/her study in any area of basic biological concepts that was considered during the general course. A close learning rapport is provided between the student and teacher.

Prerequisites: Biology 101-103. Limited to Biology, Biochemistry, and Environmental Science Majors. Group discussions and individual consultations. Three credits.

206 Field Biology

Fall

A study of local flora and fauna with emphasis on the techniques of collection identification and preservation of specimens. Lectures cover the taxonomic and phylogenetic aspects of the various organisms.

Prerequisite: Biology 101-103 or permission of instructor. Four credits.

207 Vertebrate Biology

Fall

A comprehensive treatment of vertebrate gross anatomy and evolution, and an introduction to how morphological adaptations of different vertebrate groups allow them to exploit a variety of habitats and life styles. The laboratory stresses detailed dissections of several representative vertebrates.

Prerequisite: Biology 101-103. Four credits.

209 Invertebrate Biology

Spring

A study of invertebrates, their morphology, physiology and evolutionary relationships as evidenced by system development throughout the phyla. Lectures and laboratories will present representative types as illustration of the principles being discussed.

Prerequisites: Biology 101-103. Four credits.

221 Ecology

Spring

The study of the responses of animals and communities to environmental change. Concepts of physical and biotic factors and their effects on the abundance and distribution of animals and plants are considered, as are principles of population structure, growth and energy flows in communities. Laboratories stress standard techniques of ecological research.

Prerequisite: Biology 101-103. Four credits.

223 Genetics

Spring

The study of gene transmission from generation to generation, gene structure and function, and gene behavior in populations. Lectures consider several topics, including transmission genetics, chromosome theory of inheritance, gene mapping, nucleic acid structure and function, developmental genetics, and population genetics. The laboratory emphasizes a quantitative approach to exploration of selected topics considered in lecture.

Prerequisites: Biology 101-103, Chemistry 103-107 or 105-109 or permission of instructor. Four credits.

225 Cell Biology**Fall**

The study of cell structure and function. Topics include cellular biochemical processes, cell membranes, organelles, the cytoskeleton, nuclear function, cell division and cell behavior. Lecture and laboratories will emphasize the experimental and quantitative approach.

Prerequisites: Biology 101-103, Chemistry 103-107 or 105-109. Four credits.

301 Biochemistry I**Fall**

An introduction to the molecular basis of structure and function in living organisms. The current concepts of energy transformation, enzyme kinetics and major metabolic pathways and their control are explained and evaluated. The laboratory employs fundamental quantitative methods used in the study of biomolecules. Problem solving and the interpretation of experimental data are stressed.

Prerequisites: Biology 101-103, Chemistry 204-206. Four credits.

303 Biochemistry II**Spring**

A continuation of Biochemistry I, this course covers biosynthetic metabolism and its control, nucleic acid biochemistry, protein synthesis, and molecular physiology. Laboratories consist of independent research projects concerning concepts explored in both Biochemistry I and II.

Prerequisite: Biology 301. Four credits.

315 Microbiology**Fall**

A study of the structure, development, growth and physiology of organisms classified as bacteria, algae and fungi; fundamental aspects of virology and immunology are discussed. Laboratory explores taxonomy and morphology as well as physiology and biochemistry of microorganisms. An independent research project is part of the laboratory experience.

Prerequisite: Biology 101-103, Chemistry 103-107 or 105-109 or permission of the instructor. Four credits.

317 Plant Physiology**Spring**

A study of functions of plants including growth, development, and reproduction. Concepts of bio-engineering and economic botany are discussed. Laboratory experience includes hydroponics, ion analyses, photosynthesis, effects of acid rain on seed and plant growth, and physiological aspects of home and garden plants. An independent research project is part of the laboratory.

Prerequisites: Biology 101-103, Chemistry 103-107 or 105-109 or permission of the instructor. Four credits.

319 Animal Physiology**Spring**

A comprehensive study of physiological regulation from the level of the cell to that of the integrated organism, with emphasis on the human. The interpretation and

significance of experimental data are stressed. The laboratory explores fundamental concepts of cellular and systems physiology.

Prerequisites: Junior standing, Biology 101-103, Chemistry 103-107 or 105-109, or permission of instructor. Four credits.

345 Developmental Biology

Spring

The study of the progressive changes in gene expression and cell interactions that determine the form of an organism at all points of its life cycle. Lectures consider several topics, including embryology, cell differentiation and its regulation, cell communication, and spatial organization. Laboratories explore selected topics considered in lecture. The approach is experimental and a wide variety of organisms, both plants and animals, are studied.

Prerequisites: Biology 101-103, Chemistry 103-107 or 105-109 or permission of the instructor. Four credits.

410 Senior Seminar

Spring

Directed toward specific areas of biological investigation, such as evolution theory, historical and social biology, and molecular studies. Relying on group discussion, the seminar emphasizes experimental data and their interpretation.

Limited to Biology, Biochemistry or Environmental Science majors. Three credits.

420 Senior (Honors) Research

One or Two Semesters

Senior research provides an opportunity for students who have demonstrated above-average performance to undertake a laboratory or field investigation with a member of the Biology faculty. The results must be reported in written form and presented in a seminar.

Three credits each semester.

499 Research Internship

Qualified juniors and seniors may petition the department and the Dean of the Undergraduate College to participate as researchers in one of a variety of off-campus facilities. Requirements include: selected readings, extensive research, a final research report and oral presentation.

Credit to be arranged; maximum of fifteen credits.

DEPARTMENT OF BUSINESS ADMINISTRATION

WILLIAM O. ANDERSON, CHAIR; BENSON, FORTUNE, KENNY, KUKLIS, LAMARCHE, LETOVSKY, MULLARKY, PUTZEL, VOIGT, WALKER.

The department offers majors and minors in Accounting and Business Administration. The Business Administration major is designed to study the nature, function, and social role of the business organization. The program emphasizes that administration is both an art and a science which draws from other intellectual and moral disciplines in the liberal arts curriculum. It helps students to make sound decisions in a business world influenced by diverse attitudes, values, philosophies, and

environments. The Accounting major is designed to prepare students for careers in public and corporate accounting.

The department prepares students to accept administrative positions in business, government, and other service organizations, or to enter an advanced degree program.

Transfers into the Department of Business Administration and Accounting from another college or university must complete a minimum of six courses in the department at Saint Michael's regardless of the number of business credits that they receive upon transfer.

REQUIRED FOR THE ACCOUNTING MAJOR:

Freshman Year:

- BU141 Financial Accounting (4 credits)
- BU143 Managerial Accounting (4 credits)
- MA101 Finite Math (3 credits)
- CS101 Computer Science (4 credits)

Sophomore Year:

- MA102 Statistics (3 credits)
- BU221 Intermediate Accounting (4 credits)
- BU223 Intermediate Accounting (4 credits)
- BU243 Cost Accounting (3 credits)
- EC101 Economics (3 credits)
- EC103 Economics (3 credits)

Junior Year:

- BU309 Business Law (3 credits)
- BU315 Financial Policies of Corp. (3 credits)
- BU351 Advanced Accounting (4 credits)
- BU369 Financial Management (3 credits)

Senior Year:

- BU415 Federal Income Tax (3 credits)
- BU450 Seminar in Accounting (3 credits)
- BU451 Auditing (3 credits)

STRONGLY RECOMMENDED:

- BU453 C.P.A. Problems (3 credits)
- BU457 Commercial Law (3 credits)

REQUIRED FOR THE ACCOUNTING MINOR:

- BU141 Financial Accounting (4 credits)
- BU143 Managerial Accounting (4 credits)
- BU221 Intermediate Accounting (4 credits)
- BU223 Intermediate Accounting (4 credits)

AND CHOOSE two courses from:

- BU243 Cost Accounting (3 credits)
- BU351 Advanced Accounting (4 credits)
- BU415 Federal Income Tax (3 credits)
- BU451 Auditing (3 credits)

REQUIRED FOR THE BUSINESS MAJOR:

Freshman Year:

- BU113 Foundations of Business (4 credits)
- MA101 Finite Math (3 credits)

CS101 Computer Science (4 credits)

Sophomore Year:

BU141 Financial Accounting (4 credits)

BU143 Managerial Accounting (4 credits)

BU207 Statistics (3 credits)

EC101 Economics (3 credits)

EC103 Economics (3 credits)

Junior Year:

BU303 Management (4 credits)

BU305 Marketing (3 credits)

BU309 Business Law (3 credits)

BU315 Finance (3 credits)

Senior Year:

BU455 Production & Operations Mgt. (3 credits)

BU461 Business Policy (4 credits)

AND CHOOSE Business electives (maximum of five)

REQUIRED FOR THE BUSINESS MINOR:

BU113 Foundations of Business (4 credits)

BU141 Financial Accounting (4 credits)

BU143 Managerial Accounting (4 credits)

BU207 Statistics (3 credits)

BU303 Management (4 credits)

BU305 Marketing (3 credits)

BU315 Finance (3 credits)

SAINT MICHAEL'S-CLARKSON COLLEGE MBA 4+1 PROGRAM

Saint Michael's College has established an agreement with Clarkson College (Potsdam, New York) that allows students to plan their undergraduate program in preparation for graduate study in management. The foundation courses include material required in the first year of study in MBA programs; therefore, students who plan their undergraduate program carefully are able to earn the undergraduate degree and the MBA degree in five years.

Foundation requirements include satisfactory completion of the following courses and corresponding labs:

Business: 141-143, 207, 303, 305, 309, 315, 455.

Computer Science: 101

Economics: 101-103.

Strongly Recommended: Business 369 and 457.

In addition, it is assumed that students will have a working knowledge of calculus. Students who have not completed all foundation courses may take them in the two sessions offered each summer at Clarkson.

As soon as possible after completing the third year of undergraduate study, applicants should obtain, complete, and submit an official "Clarkson College Application for Admission and Assistance for Graduate Study" form. All requests for applications should be sent to: Dean of the Graduate School, Clarkson University, Potsdam, New York 13676.

113 Foundations of Business Administration *Fall and Spring*

Familiarizes the student with a broad range of economic, governmental and societal factors encountered in business organizations. Exposes the student to the changing environment of business, the various functional areas of marketing, finance, management, and the role of business in society. Emphasizes written and oral presentations, and exposure to readings in the field.

Requires concurrent enrollment in Business 113 Laboratory. Three credits.

113L Freshman Business Laboratory *Fall and Spring*

Complements material covered in Business 113 with experiential exercises, topical readings, and independent research projects.

Prerequisite: concurrent enrollment in Business 113. One credit.

141 Financial Accounting *Fall and Spring*

Introduces accounting principles and practices applicable to the preparation and analysis of financial statements of a business organization. Major topics include the accounting cycle, classification of current and non-current assets and liabilities, the measurement of income, and preparation and analysis of financial statements.

Four credits.

143 Managerial Accounting *Fall and Spring*

Covers the preparation and use of accounting information in the management process. Introduces the use of budgets, cost control systems, standard costs, variance analysis, cost-based decision making, present-value techniques, break-even concepts, and capital investment decisions.

Prerequisite: Business 141. Requires concurrent enrollment in Business 143 Laboratory. Three credits.

143L Sophomore Business Laboratory *Fall and Spring*

Complements material covered in Business 143 with experiential exercises, topical readings, and independent research projects.

Prerequisite: concurrent enrollment in Business 143. One credit

207 Statistics

Fall and Spring

Provides the basic statistical tools required for analysis of business decisions. Covers descriptive statistics, probability and probability distributions, inferential statistics, regression and correlation and non-parametric statistics.

Open only to Business Majors. Prerequisites: Mathematics 101 and Computer Science 101, or permission of the instructor. Credit will not be given for both Mathematics 102 and Business 207. Three credits.

221-223 Intermediate Accounting *Two semesters*

Focuses on the theory and practice of accounting for corporations. It includes the study of techniques used in the valuation of asset, liability, and stockholders equity accounts; analysis of statements; and other advanced topics.

Prerequisites: Grade of B or better in Business 141-143 or permission of instructor. Four credits each semester.

243 Cost Accounting for Managers *Spring*

Combines the study of cost accounting systems with the development of accounting data for purposes of decision making, control, and evaluation. Required for Accounting majors and recommended for Business majors with an interest in the accumulation and use of cost relevant to the decision-making process.

Prerequisites: Business 141-143. Three credits.

303 Management and Organizational Behavior *Fall and Spring*

Examines and encourages the development of useful managerial skills by familiarizing the student with the field of management as it exists today. Topics include goal setting, planning, organizational behavior, human factors in the organization, decision-making, and controlling activities.

Prerequisite: Business 113 or permission of instructor. Requires concurrent enrollment in Business 303 Laboratory. Three credits.

303L Junior Business Laboratory *Fall and Spring*

Complements material covered in Business 303 with experiential exercises, topical readings, and independent research projects.

Prerequisite: concurrent enrollment in Business 303. One credit.

305 Marketing *Fall and Spring*

Reviews the role of marketing in the firm, the identification and selection of target markets, and the design of the marketing mix to best meet the requirements of the target market. Examines the impact that the economic, legal, social and competitive environments have on the market mix will be closely examined.

Prerequisite: Business 113 or permission of instructor. Three credits.

309 Business Law *Fall and Spring*

Introduction to the fundamental principles of business law and the legal environment which governs business transactions. Major topics include legal systems and issues, contract law, laws governing sales, commercial paper, partnerships and corporations.

Three credits.

315 Financial Policies of Corporations *Fall and Spring*

Surveys financial decision-making in a business enterprise with respect to acquisition and allocation of funds. Compounding and discounting, estimating cash flows on investment proposals, capital budgeting, cost of capital, analyzing risk return trade

off, valuing securities, capital asset pricing model, effects of operating and financial leverage, financial ratios, working capital management, and corporation expansion and contraction are considered.

Prerequisites: Business 113, 141-143, 207 or Mathematics 102. Three credits.

321 Personnel Administration TBA

Covers organization for personnel, staffing, recruiting, selection, training of employees, employee evaluation, job analysis, salary and wage administration, promotions, demotions, incentives and morale.

Prerequisites: Business 113 and 303 or permission of instructor. Three credits.

325 Sales and Sales Management Spring

Examines each of the components of the selling process, stressing the need for pre-call preparation and identification of buyer needs as the key building blocks for sales success. Includes a brief overview of the sales management function with emphasis on the motivational and coaching roles of the sales manager.

Prerequisites: Business 113 and 305 or permission of instructor. Three credits.

341 Labor Relations Spring

Surveys the history of the American labor movement, the development of labor law in the United States, and the techniques and strategies of collective bargaining both for management and labor in the public and private sectors. Various methods of dispute settlement, including mediation, arbitration and fact finding, will be considered.

Prerequisite: Business 113 or permission of instructor. Three credits.

345 Retailing Spring

Explores the evolution of American retail institutions together with a practical introduction to the field of retail merchandise control and promotion. Coverage of both large and small retail operations.

Prerequisites: Business 113, 305 or permission of instructor. Three credits.

351 Advanced Accounting Fall

Covers advanced topics in accounting theory and practice, including accounting for consolidations, partnerships, and not-for-profit institutions. Inter-corporate investments under the cost and equity methods and pooling versus purchase-accounting problems for business combinations are emphasized.

Prerequisite: Business 221-223. Four credits.

365 Organization Theory and Human Behavior in Organizations Spring

Analyzes the evolution of organization theory, which focuses on the design of modern organizations and human behavior in organizations. Topics include history of organization theory, structural design variables, the matching of organization design to task and environment, alternative leadership styles, power and conflict, motivation and the consequences of organization architecture.

Prerequisites: Business 113 and 303. Three credits.

369 Financial Management: Theory and Application

Spring

Explores the theory and application of corporate financial management. Advanced topics of study include: cost of capital, capital structure analysis, leverage, leasing, working capital, capital market theories, combinations, and mergers.

Prerequisite: Business 315. Three credits.

371 International Business

Fall

Introduces students to the problems and possibilities of doing business in an international context. It is a survey of two levels of the international experience: the operating environment and the new challenges to traditional business methods. The course will focus on the basic problems of the manager in international decision-making, and equip the student with concepts and facts that will help in solving those problems.

Prerequisites: Junior standing or permission of the instructor. Three credits.
GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

405 Principles of Advertising

Spring

Includes planning, creation, and use. The course reviews all media operations, and attempts to lead the student through as much practical application as possible.

Prerequisites: Business 113 and 305 or permission of the instructor. Four credits.

411 Investments

Fall

Provides a background on the various types of securities, the security markets, and the nature of public regulation of the investment industry. Fundamental, technical analyses and random walk theory are examined.

Prerequisites: Business 315 or permission of the instructor. Three credits.

413 Investment Management

Spring

Deals with advance investment valuation. Explores in depth such topics as asset allocation, determination of portfolio policies, modern portfolio theory and the psychological influences in the market.

Prerequisites: Business 315 or 411, or permission of the instructor. Three credits.

415 Federal Income Tax

Fall

Stresses planning and preparation of tax returns for individuals, with attention to gross income, business deductions, itemized deductions, tax credits, special tax computations, and other topics of current interest.

Prerequisites: Business 141-143. Three credits.

421 Research in Consumer and Market Behavior

Not offered in 1992-93

Exposes the student to the application of quantitative techniques in the field of marketing. The student will develop a proficiency in the use of popular techniques in the design, collection, and analysis of market-related information. Topics can include

the role of market research in solving marketing problems, problem formulation and research design, sampling, data collection methods, data analysis techniques, and report preparation.

Prerequisites: Computer Science 101, Business 207, Business 305. Three credits.

431 Marketing Management *Not Offered in 1992-93*

Applies concepts and techniques presented in Business 305 to actual situations. Specifically, environmental monitoring, target market selection, and marketing mix development will be combined in the creation of marketing plans. Although a variety of pedagogies will be used, case analysis will be emphasized.

Prerequisites: Business 113 and 305. Three credits.

443 International Marketing *Spring*

Reviews the way foreign markets can differ from the domestic American market in terms of economic, social, and political conditions. Focuses on each of the elements of the marketing mix, and on how an American firm operating abroad must adapt them to reflect the unique characteristics of the foreign market. Students will be given an opportunity to prepare an international marketing plan for a chosen product in a foreign market.

Prerequisites: Business 113, 305, or permission of instructor. Three credits.

445 Cross-Cultural Management *Not Offered in 1992-93*

Examines some of the internal issues and problems faced by the multi-national firm. This course will focus on cultural sensitivity and multi-cultural exposure. Students consider the challenges of organizing and managing a multi-national company, with the challenge of opening and expanding a complex of national markets. They also examine the important assets of a firm as it strives to be an effective economic force across behaviorally and culturally diverse areas of the world.

Prerequisites: Business 303 and 371. Three credits.

450 Seminar in Accounting *Spring*

Explores advanced theory, accounting literature, the development of accounting standards, professional behavior and other areas of interest through readings, cases and discussions.

Prerequisites: Business 351 and 451. Three credits.

451 Auditing *Fall*

Studies the procedures and operations used by Certified Public Accountants to determine and report to the public on the fairness of a business' financial statement presentation.

Prerequisite: Business 351. Three credits.

453 C.P.A. Problems

Not Offered in 1992-93

The working of complex accounting problems, fortified by a concentrated review of basic accounting concepts to familiarize the student with the theory and practice sections of the CPA examination.

Prerequisites: Business 351 and 451. Three credits.

**455 Production and Operations
Management**

Fall and Spring

Integrates management science theory with practical application as it examines the principles, techniques, and methodologies required to successfully operate a manufacturing or service organization in today's dynamic environment. Topics include forecasting, cost-benefit analysis, capacity planning and utilization, plant layout and location, scheduling, inventory management, and quality control.

Open to junior and senior Business Administration majors only. Prerequisites: Business 303 and 315. Three credits.

457 Commercial Law

Fall

Covers the Uniform Commercial Code. It should be elected by students preparing for the CPA examination. The program goes beyond the scope of Business 309.

Prerequisite: Business 309. Three credits.

**461 Business Policy and
Strategic Management**

Fall and Spring

Examines how an organization resolves complex problems within the constraints of the real world. Develops an ability to view the organization as a whole and understand how and why the various functions are interdependent. Topics include setting realistic objectives, policies, and plans; corporate and business strategies; translating strategies into pro forma statements; organizational structure; and resource allocation. Case studies and simulated business decision-making identify the role of the general manager in a variety of domestic and international situations.

Open to senior Business Administration majors only. Prerequisites: Business 303, 305, 315. Requires concurrent enrollment in Business 461 Laboratory. Three credits.

461L Senior Business Laboratory

Fall and Spring

Complements material covered in Business 461 with experiential exercises, topical readings, and independent research projects.

Prerequisite: concurrent enrollment in Business 461. One credit.

DEPARTMENT OF CHEMISTRY

DR. MICHAEL H. GIANNI, CHAIR; KELLNER, OLGIIATI, SCHROLL, VAN HOUTEN

The Department of Chemistry offers programs to meet the needs of students whose primary interest is chemistry and who intend to pursue graduate studies or enter directly into industry or secondary school teaching. With an appropriate choice of electives the Chemistry major can be the foundation for a career in medicine,

dentistry, allied health sciences, law, or the business world. **This program is certified by the American Chemical Society.**

The major in Chemistry should be chosen only by students who have a good aptitude for the physical sciences and mathematics. Students who plan to attend graduate school should bear in mind that a knowledge of French, German or computer programming may be required.

REQUIRED FOR THE CHEMISTRY MAJOR:

CH105	Stoichiometry (5 credits)
CH109	Chemical Bonding & Energetics (5 credits)
CH204	Organic Chemistry (4 credits)
CH206	Organic Chemistry (4 credits)
CH302	Physical Chemistry I (3 credits)
CH304	Physical Chemistry II (4 credits)
CH305	Inorganic Chemistry (4 credits)
CH307	Advanced Inorganic Chemistry (4 credits)
CH410	Seminar (3 credits)
CH415	Physical Chemistry III (4 credits)

AND CHOOSE two additional Chemistry electives.

IN ADDITION, CHOOSE:

PY210	College Physics (4 credits)
PY212	College Physics (4 credits)
MA109	Calculus I (4 credits)
MA111	Calculus II (4 credits)
MA211	Calculus III (4 credits)

RECOMMENDED for students planning graduate studies in Chemistry:

MA303	Differential Equations (4 credits)
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101 Chemistry for Changing Times *Fall and Spring*

The classical principles of chemistry, applied to modern-day science and technology. Topics include food additives, drugs, nuclear power, plastics, and environmental problems.

Three credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

103 Stoichiometry *Fall*

A comprehensive study of quantitative relationships in chemical reactions. The laboratory focuses on classical methods in qualitative and quantitative analysis.

Four credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

105 Stoichiometry *Fall*

A comprehensive study of quantitative relationships in chemical reactions. The laboratory presents a more extensive study of qualitative and quantitative methods of chemical analysis.

Five credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

107 Chemical Bonding and Energetics Spring

Topics include atomic structure, bonding and molecular structure, basic thermodynamic relationships, reaction kinetics and acid-base theory. The laboratory continues the study of quantitative analytical methods.

Prerequisite: Chemistry 103 or permission of the instructor. Four credits.

109 Chemical Bonding and Energetics Spring

Lectures cover atomic structure, bonding and molecular structure, thermodynamic relationships, reaction kinetics, and base theory. The laboratory continues the study of modern instrumental methods of quantitative and qualitative analysis.

Prerequisite: Chemistry 105 or permission of instructor. Five credits.

204-206 Organic Chemistry Two semesters

A study of organic reactions, with emphasis on functional groups, reactive intermediates, reaction mechanisms, and syntheses. The laboratory introduces students to organic laboratory techniques, with emphasis on syntheses, separations, and qualitative analysis by classical and instrumental methods.

Four credits each semester.

231 The Mystery of Matter Fall and Spring

Background for understanding the problems, limitations and implications of the scientific age. Traces the development of the physical concepts that led to the discovery of atomic energy, the nature of living matter, and the physical processes in the creation of the universe.

Three credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

302 Physical Chemistry I Fall

The laws and energy relationships that apply to the description of physical states and chemical processes. Includes a detailed study of thermodynamics, physical states of matter, kinetics, equilibria, and modern concepts of atomic and molecular properties.

Prerequisites: Mathematics 103 or equivalent; one year of College Physics. Three credits.

304 Physical Chemistry II Spring

A continuation of Chemistry 302. The laboratory emphasizes techniques for measuring the physical properties and energy changes of chemical systems.

Prerequisites: as for 302. Four credits.

305 Inorganic Chemistry Fall

A study of atomic and molecular structure in the inorganic chemistry of compounds of the main group elements. Periodic relationships in the chemical and physical properties of these compounds is emphasized. Molecular symmetry and bonding provide an introduction to group theory.

Prerequisite: Chemistry 107 or 109 or equivalent. Corequisite: Chemistry 302. Three credits. (For ACS certification: three class hours and one laboratory each week. Four credits.)

307 Advanced Inorganic Chemistry Spring

A detailed study of coordination chemistry. The structure, properties, and reactions of transitional metal complexes are discussed. Applications in areas such as catalysis and bioinorganic chemistry are surveyed.

Prerequisites: Chemistry 302, 305. Corequisite: Chemistry 304. Three credits. (For ACS certification: three class hours and one laboratory each week. Four credits.)

325 Biochemistry I Fall

An introduction to the molecular basis of structure and function in living organisms. The current concepts of energy transformations, enzyme kinetics, major metabolic pathways and their control are explained. The laboratory employs quantitative methods used in the study of biomolecules.

Prerequisites: Biology 101, 103; Chemistry 204-206. Four credits.

327 Biochemistry II Spring

A continuation of Biochemistry I, this course covers biosynthetic metabolism and its control, nucleic acid biochemistry, protein synthesis, and molecular physiology. The laboratory consists of independent research projects.

Prerequisite: Chemistry 325. Four credits.

329 Advanced Biochemistry Spring

Selected topics not treated in Biochemistry I (Chemistry 325). Special topics may include recombinant DNA technology, hormone-receptor interactions, neurochemistry, immunochemistry, and pharmacology. The laboratory will consist of advanced methods of biochemical analysis and their application to a project-oriented program.

Prerequisites: Chemistry 325, Chemistry 302-304, or completion of Chemistry 302 and concurrent enrollment in Chemistry 304. Four credits.

401 Advanced Organic Chemistry Fall

A comprehensive study of modern organic synthesis, with emphasis on reaction mechanisms and stereochemistry.

Prerequisites: One year of Organic Chemistry, and Chemistry 302 or concurrent enrollment in 302. Four credits.

403 Physical Organic Chemistry Spring

A study of organic reactions, with emphasis on kinetics and mechanisms, activation parameters, molecular orbitals, and symmetry.

Prerequisites: One year of Organic Chemistry and Chemistry 302 or concurrent enrollment in 302. Four credits.

410 Seminar**Fall**

Familiarizes the student with the literature of chemistry. Each student will present a series of seminars from current chemical literature. In addition, each student will defend orally an original research proposal. This proposal should demonstrate a comprehension of current chemical problems and an appreciation for the experimental methods.

Three credits.

413 Instrumental Analysis**Spring**

The theoretical and practical aspects of instrumental analytical chemistry. The laboratory consists of electrochemical, spectrometric, chromatographic, and radiometric methods of analysis. This course does not satisfy the requirements for an ACS-approved B.S. in chemistry.

Prerequisites: One year of college-level Physics, and Chemistry 107 or 109, 207 or equivalent. Alternates with Chemistry 417. Offered in even-numbered years. Four credits.

415 Physical Chemistry III**Fall**

A continuation of Chemistry 302-304, including an introduction to quantum mechanics, statistical mechanics, and theoretical kinetics.

Prerequisites: Chemistry 302-304. Four credits.

417 Chemical Instrumentation**Fall**

The theoretical and practical aspects of instrumental analysis. The theoretical treatment is more rigorous than that used in Chemistry 413, and should be taken by students who have completed or are enrolled in one year of Physical Chemistry. The laboratory consists of spectrometric, chromatographic and electrochemical methods of analysis. Data processing of experimental results is employed. This course does satisfy the instrumental requirement for an ACS-approved B.S. in chemistry.

Prerequisites: Completion of Chemistry 302-304 or completion of Chemistry 302 and concurrent enrollment in 304. Alternates with Chemistry 413. Offered in odd-numbered years. Four credits.

421 and 423 Chemical Research**Fall and Spring**

Laboratory research introduces current chemical research problems and techniques. A written report is required.

Prerequisites: Completion of Chemistry 302-304 or permission of Chemistry staff. Three credits each semester.

DEPARTMENT OF CLASSICS

DR. JAMES P. CONLEY, CHAIR, BEGLEY, CITARELLA, MERRIMAN.

The Department of Classics offers courses in Greek and Latin for students who wish to read the literature written in those languages. It also offers courses in Greek and Roman culture and civilization, as well as literature in translation.

A major is offered in Latin for students who plan to do graduate work in Classical or Romance languages or in ancient or medieval history, and for those who wish to teach Latin in the secondary schools or are interested in the cultural value of the Classics. The following are the objectives of the program: to develop students' ability to read and translate at sight representative works of Latin authors; to teach skill and style in Latin composition, conversation and prosody; to develop an understanding of the lasting contribution of Greco-Roman civilization in our own culture.

A major is offered in Classical Civilization for those who desire to explore the culture of classical antiquity. In addition to presenting courses in drama, epic, etymology, and ancient history, the major invites students to cross disciplines into other departments, where they may consider the influence of ancient Greece and Rome in philosophy, religion, fine arts and the humanities.

REQUIRED FOR THE CLASSICAL CIVILIZATION MAJOR:

At least 17 credits in Greek and Latin

AND CHOOSE:

At least 18 credits in the areas of ancient history, art, philosophy, religion, and mythology.

REQUIRED FOR THE CLASSICAL CIVILIZATION MINOR:

At least 21 credits in Classics.

REQUIRED FOR THE CLASSICS - LATIN MAJOR:

- LA211 Intermediate Latin (4 credits)
- LA251 Roman Historians (3 credits)
- LA253 Roman Lyric Poetry (3 credits)
- LA303 Latin of the Patristic and Medieval Worlds (3 credits)
- LA305 *Aeneid* of Vergil (3 credits)
- LA310 Directed Readings in Latin Literature (3 credits)
- LA401 Latin Prose Composition (4 credits)
- LA410 Senior Seminar in Latin (4 credits)
- GR101 Elementary Greek (4 credits)

AND CHOOSE one of the following:

- CL305 History of Rome: the Republic (4 credits)
- CL307 History of Rome: the Empire (4 credits)

GREEK

101 Elementary Greek *Fall*

A thorough introduction, at an accelerated pace, to the forms, vocabulary, and syntax of classical Attic Greek. Selected readings from Xenophon, Plato, and appropriate authors.

Four credits.

201 Greek Prose Literature *Spring*

Continued intensive study of the fundamentals and nuances of ancient Greek. Selected readings may include Thucydides, Aristophanes, Plato, and Demosthenes.

Four credits.

101	Elementary Latin	<i>Fall</i>
A thorough introduction, at an accelerated pace, to the basic forms, vocabulary and syntax of classical Latin. Readings from a variety of authors and periods of Latin literature.		

211	Intermediate Latin	<i>Spring</i>
Continued intensive study of the basic structure and idioms of the Latin language. Aims to develop and hone skills in reading, translation, composition and conversation.		

251	Roman Historians	<i>Not offered in 1992-93</i>
Selected readings from Sallust, Cicero, Caesar, Livy and Tacitus, with lectures, discussions, and presentations on the development of a concept of history in Rome.		

253	Roman Lyric Poetry	<i>Not offered in 1992-93</i>
<p>Selected readings from Catullus, Horace and Vergil, with lectures, discussions, and presentations on poetry in Rome and the pervasive influence of Alexandrian Hellenism.</p>		

303 Latin of the Patristic and Medieval Worlds *Not offered in 1992-93*
First, readings from St. Augustine's *Confessions* and *City of God*, with reference to prose and poetry of other early writers; then, selections of secular and religious poetry and prose from the sixth to the thirteenth centuries.

305	<i>Aeneid</i> of Vergil	Not offered in 1992-93
<p>Reading and discussion of <i>Aeneid</i>, with emphasis on Books 1, 2, 4, and 6. Supplementary consideration will be given to the entire poem as well as the Homeric tradition and Vergil's massive impact on later literature.</p>		

Three credits.

- 310 Directed Reading in Latin Literature** *Not offered in 1992-93*
 A critical and philological examination of a specific genre of Latin literature, an author, problem, or period of composition in the history of the language.
Three credits.

- 401 Latin Prose Composition** *Not offered in 1992-93*
 A study of Latin rhetoric, with particular emphasis on the appreciation of the differences between formal, oratorical and epistolary style. Translation and composition based on selected models from Latin literature.
Four credits.

- 410 Senior Seminar in Latin** *Not offered in 1992-93*
 A reading and writing program that draws together each student's work in Latin. Two research papers, one philological and one historical, will result from consultation, discussions, and oral reports.
Four credits.

CLASSICAL CIVILIZATION

- 211 Classical Mythology: The Divinities of Greece and Rome** *Not offered in 1992-93*
 An introduction to the varied world of myth among the Greeks and Romans. Its scope extends from the Greek stories of creation to the transmission of Greek myth to Rome. The antique tales, striking plots, and remarkable characters that have enjoyed popularity through the ages are considered by reading works of authors such as Homer, Vergil, and Ovid. References to art and music as well as to the role that myth has played in the enrichment of English literature and vocabulary supplement the basic readings.
Three credits.

LITERARY AND INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

- 301 History of Greece: From Bronze to Archaic Ages** *Fall*
 (See History 301)
 The rise and development of Hellenic culture form the core of a study of archeological, political and social aspects of ancient Greece. Readings from inscriptional evidence and from Herodotus illustrate the growth of Hellas up to the end of the Persian Wars.

Prerequisite: either Humanities 101 or instructor's permission. Four credits.
 HISTORICAL LIBERAL STUDIES REQUIREMENT.

- 303 History of Greece: From Pericles to Alexander** *Not offered in 1992-93*
 (See History 303)
 Considers the multiplicity of ideas, events, individuals, and attitudes of the Hellenic world from the fifth century to the death of Alexander the Great. Thucydides leads the way; the orators will offer vibrant witness; and Alexander's legacy must be examined.

Prerequisite: either History/Classics 301, Humanities 101, or permission of the instructor. Four credits.

305 History of Rome: The Republic
(See History 305)

Not Offered in 1992-93

From the archaeological background to early Rome, the regal period, and the political and social development of the republic to the Augustan settlement.

Prerequisite: Humanities 101 or permission of the instructor. Four credits.
HISTORICAL LIBERAL STUDIES REQUIREMENT.

307 History of Rome: The Empire
(See History 307)

Not Offered in 1992-93

Considers the Roman Empire from the time of the settlement of Augustus in the first century B.C. to the fall of the empire in the West by the fifth century A.D. Major emphasis will be given to analyzing the reasons for Rome's successes, the eventual causes of decline, and the role played by Christianity in Roman imperial history.

Prerequisite: History/Classics 305, Humanities 101, or permission of the instructor. Three credits.
HISTORICAL LIBERAL STUDIES REQUIREMENT.

317 English Etymology: Greek and Latin
(See English 317)

Not Offered in 1992-93

An introduction to the history of the Indo-European family of languages, followed by a study of the most common morphological changes in the Indo-European groups and the radical phonetic changes in the Germanic group. The course will emphasize word formation and proper definition. Major emphasis will fall on the derivation of English words from Greek bases and word analysis, with special attention to unfamiliar words. A study of Latin bases, prefixes, and suffixes will provide necessary background for understanding the role of Latinate expressions in current literary use and facilitate the progression from etymological to current semantic or metaphorical meaning. Attention will be given to rules of word formation in scientific and technical terminology, abbreviations, and to Latin phrases in current English use.

Three credits.

321 Judaism in the Greco-Roman World
(See Religious Studies 321)

Spring

An advanced study of the history and religion of the Jews during a crucial period of their history, 538 B.C.E. to 200 C.E. Topics include the interplay between Greek philosophy and Jewish thought, studies in the Dead Sea Scrolls, the history of Jewish wars against the Greeks and Romans, early Christianity as a Jewish sect, and the rise of Rabbinic Judaism.

Prerequisites: At least one of the following courses or permission of the instructor: Religious Studies 110, 210, or 317; Classics/History 301, 303, 305, or 307; Humanities 101; Philosophy 301. Four credits.

399 Ad Hoc Seminar

Not Offered in 1992-93

Topics of special concern to both a faculty member and qualified students. Limited enrollment and ample opportunities for writing will combine to support discussion and dialogue.

Three credits.

403 Epic and the Heroic Tradition*Not offered in 1992-93*

The adventurous heroics of the men, women, and deities found in the poetry of *Iliad*, *Odyssey*, *Argonautica*, *Aeneid* and *Paradise Lost*.

Four credits. INTERDISCIPLINARY AND LITERARY LIBERAL STUDIES REQUIREMENT.

405 The Greek and the Roman Theatre*Not offered in 1992-93*

Representative dramatic works of Attic tragedy and comedy as well as the adaptations made by the Romans, from the works of Aeschylus in the fifth century B.C. to the plays of Seneca in the second century A.D. Secondary readings, visual materials, video tapes of performances, slides, and discussion will focus on the development of classical drama, the ancient theater, and stagecraft, against the backdrop of contemporary society.

Four credits. INTERDISCIPLINARY AND LITERARY LIBERAL STUDIES REQUIREMENT.

DEPARTMENT OF COMPUTER SCIENCE

LINDA S. HALSTED, CHAIR, GREEN, TRONO

The major in Computer Science is structured to provide the student with the core Computer Science courses needed for the bachelor of science (BS) degree and yet allow the advanced student to emphasize one of a number of Computer Science applications. The curriculum has been divided into three segments: introductory courses, the basic core of Computer Science courses, and electives in computer science.

The introductory course work consists of two semesters of computer science concepts (concentrating on applications, algorithm design and programming in a higher-level language), and two semesters of calculus. The core covers the principles and theories of Computer Science with courses in discrete mathematics, data structures and the analysis of algorithms, statistics, computer organization, programming languages, operating systems, and computer architecture. The electives will be chosen with the guidance of a departmental advisor.

The curriculum prepares the major to pursue a career in the computer industry or to continue studying computer science at the graduate level. Computer Science majors should give consideration to obtaining a minor in a related field.

REQUIRED FOR THE COMPUTER SCIENCE MAJOR:**Introductory Courses:**

CS101 Computer Programming I (4 credits)

CS103 Computer Programming II (4 credits)

MA109 Calculus I (4 credits)

MA111 Calculus II (4 credits)

Computer Science Core Courses:

CS211 Data Structures and the Analysis of Algorithms (4 credits)

CS213 Introduction of Machine Organization
and Assembly Language Programming (4 credits)

CS303	Organization of Programming Languages (4 credits)
CS311	Principles of Operating Systems (4 credits)
CS313	Computer Architecture (4 credits)
MA207	Math Foundations for Computer Science I (4 credits)
MA208	Math Foundations for Computer Science II (4 credits)
MA250	Probability & Statistics I (4 credits)

AND CHOOSE four additional Computer Science electives at the 200 level or above, for a minimum of 60 credits.

REQUIRED FOR THE COMPUTER SCIENCE MINOR:

CS101	Computer Programming I (4 credits)
CS103	Computer Programming II (4 credits)
CS211	Data Structures and the Analysis of Algorithms (4 credits)

AND CHOOSE two additional Computer Science courses at the 200 level or above

101 Computer Programming I

Fall and Spring

An introduction to the fundamental concepts and techniques of computer science. Students will be introduced to operating systems, files, applications, and programming languages. The discipline of algorithmic thinking will be developed through the presentation of the basic control and data structures and the implementation of the resulting algorithms in Pascal. The required laboratory is designed to provide students with experience using the technology.

Four credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

103 Computer Programming II

Spring

Continued development of programming style and techniques. This course covers two-dimensional arrays, pointers, records and sets. The basic aspects of recursion, string processing, searching and sorting techniques are covered. Hardware characteristics of secondary storage devices, file organization and access methods will be studied. The course will require an extensive number of programming projects in C.

Prerequisite: Computer Science 101. Four credits.

207 Introduction to Computer Graphics

Spring, Alternate years

The basic concepts of computer graphics. Students study the types of graphic devices available and how to design graphics software for this hardware. Topics include line generation, polygon generation, two and three dimensional transformations, segmentation, windowing and clipping.

Prerequisites: Computer Science 103. Four credits.

211 Data Structures and the Analysis of Algorithms *Fall*

Topics include concepts of data and its representation in a computer; linear lists, stacks, queues, strings, arrays, trees, orthogonal lists, tree structures and data structures used in programming languages. Detailed study of a variety of techniques for sorting and searching. Analysis of algorithms to determine their complexity and efficiency.

Prerequisite: Computer Science 103. Four credits.

213 Introduction to Machine Organization and Assembly Language *Spring*

Introduces the student to computer architecture, machine language, and assembly language programming. Covers internal representation of instructions and data, instruction execution, addressing techniques, assembly language features, macro definition and use. Assemblers, linkers, and loaders will be studied.

Prerequisite: Computer Science 103. Four credits.

303 Organization of Programming Languages *Fall*

The principles and programming styles that govern the design and implementation of contemporary programming languages. Topics include: language syntax, language processors (compilers, interpreters), language representations (data structures, control structures, binding, run time environment) and language styles (procedural, functional, object, logic, data flow). Languages studied usually will include C, Lisp, Snobol, Ada and Prolog.

Prerequisite: Computer Science 211. Four credits.

305 Database Management *Spring*

Studies database concepts and architecture, and the hierarchical, network, and relational database systems. Special emphasis will be placed on how data are represented, organized, and manipulated in the relational model. Several applications are developed to show implementation strategy and practical design considerations. Reliability, security, and the integrity of data are discussed. Elements of file processing are reviewed; query languages and database administration are studied; data independence and logical vs. physical representations emphasized. Other topics include a review of file processing concepts and physical implementation of databases, database administration, and semantic modelling.

Prerequisite: Computer Science 211. Three credits.

307 Introduction to Data Communications *Fall, Alternate years*

Introduces the concepts and terminology of data communications. Topics covered include: information theory; analog-to-digital conversions; error detecting and correcting codes; communication protocols; communication hardware; telephony, computer network flow control and routing. Covers the ISO-OSI layering model with great detail given to the physical, data link, and network layers (OSI layers 1-3). Local area networks and the interconnection of networks will also be discussed.

Prerequisite: Computer Science 213. Three credits.

309 Digital Computer Logic, Circuits and Systems Fall

Logical design of circuits; gates; Karnaugh Maps; the Quine-McCluskey algorithm. Design of sequential circuits such as adders. Integration, synthesis, and analysis of digital circuits.

Prerequisites: Computer Science 213, Mathematics 207. Three credits.

311 Principles of Operating Systems Fall

The basic components and techniques used in operating systems. Topics covered are: history of operating systems; file systems; process management; main memory management, virtual memory management; concurrency, protection and sharing. Hierarchical system design and distributed systems will also be discussed. A lab will meet weekly to illustrate ideas discussed in class.

Prerequisites: Computer Science 211, 213. Four credits.

313 Computer Architecture Spring

Introduces the computer as a set of connected components. ALU, CPU, and memory hierarchy designs are studied. Microprocessors and bus strategies are discussed in detail; op code/instruction selection and format, and microprogramming are also covered. I/O peripherals and DMA devices are surveyed. SIMD, MISD and MIMD computers are covered along with dataflow architecture and distributed systems. RISC, CISC, pipelined and directly executable language machines are included throughout the course.

Prerequisites: Computer Science 311, Mathematics 207. Four credits.

407 Software Engineering Fall

Covers the philosophy and techniques of software engineering, emphasizing analytical techniques useful to software designers. Contents include: life-cycle models for systems development; data flow diagrams; Warnier-Orr diagrams; Structure Charts; introduction to proving programs correct; cyclomatic complexity; black and white box testing; software metrics; software maintenance. There will be a semester-long software engineering project.

Prerequisite: Computer Science 211. Four credits.

411 Special Topics in Computer Science Spring

Subject matter will vary from semester to semester depending on staffing. Consult with the instructor before enrolling to determine topics to be studied.

Prerequisite: Permission of the instructor. Three credits.

413 Compiler Construction Spring, Alternate years

How to design a compiler for a higher-level language. Topics include: lexical analysis; syntactical analysis; bottom-up and top-down parsing techniques; symbol table creation and manipulation for local and global variable resolution; intermediate and final code generation; error recovery; portability. There will be a semester-long programming project to write a compiler for a subset of Pascal.

Prerequisites: Computer Science 303 and Mathematics 208. Four credits.

415

Artificial Intelligence*Spring, Alternate years*

Introduces students to the foundations of artificial intelligence: its history, philosophy, and accomplishments. Topics covered during this part of the course include games, methods of reasoning, and methods of problem solving. The second part will explore a current application area in some depth. Specific topics will be selected from: expert systems, natural language processing, vision, or machine learning. Within the selected area we will study current methods for representing and processing knowledge. Extensive reading and programming projects are required.

Prerequisites: Computer Science 303 and Mathematics 207. Four credits.

417

Advanced Algorithms and Their Complexity*Fall, Alternate years*

Covers algorithm techniques (such as divide and conquer, greedy algorithms, and dynamic programming) as well as algorithms to find "near optimal" solutions and parallel algorithms. It will also attempt to describe how to answer the following questions when one is given a problem (or a proposed solution to a problem): How can it be done more efficiently? What data structures are useful? What is the fastest way it could be performed? Searching, sorting, hashing, string pattern matching and graph algorithms will be discussed and analyzed as will using big oh, big omega, and big theta notation.

Prerequisites: Computer Science 301 and Mathematics 208. Three credits.

DEPARTMENT OF ECONOMICS

DR. JENNIE VERSTEEG, *CHAIR*; AMRHEIN, CARVELLAS, KESSEL, RAMAZANI.

The Economics major provides an understanding of economic theory and institutions and prepares the student to apply this knowledge to the analysis of a wide range of economic problems and policies.

Students majoring in economics have a broad range of interests. Some seek training for careers in business or industry; others seek preparation for graduate school in economics, business, or law; some simply have an interest in the social sciences and are particularly intrigued by economic problems. The Economics program is designed to accommodate this diversity.

The major begins with a core, consisting of principles of economics, macroeconomic and microeconomic theory, and skills courses in statistics and mathematics. Beyond this each economics major works closely with a departmental advisor to plan a sequence of Economics electives consistent with that student's interest. All students complete a Senior Seminar in Economics, which enables them to pursue research on topics of their own choice and to discuss their results with peers and professor(s) in weekly seminar meetings.

All courses except for Economics 205 and 207 are open to both majors and non-majors. Economics majors must have completed Economics 101-103 prior to enrolling in a course at the 300 level or above. Non-majors interested in these courses are admitted by permission of the professor.

REQUIRED FOR THE ECONOMICS MAJOR:

- | | |
|-------|-------------------------------------|
| EC101 | Principles of Economics (3 credits) |
| EC103 | Principles of Economics (3 credits) |

EC205	Statistics for Economics (4 credits)
EC311	Macroeconomic Theory (4 credits)
EC312	Microeconomic Theory (4 credits)
EC207	Mathematics for Economists (4 cr) OR
MA103	Elements of Calculus (4 credits) OR
MA109	Calculus I (4 credits) OR
MA111	Calculus II (4 credits)
EC410	Senior Seminar in Economics (two semesters-4 credits total)
AND CHOOSE three additional Economics electives at 4 credits each.	

REQUIRED FOR THE ECONOMICS MINOR:

EC101	Principles of Economics (3 credits)
EC103	Principles of Economics (3 credits)
EC311	Macroeconomic Theory (4 credits)
EC312	Microeconomic Theory (4 credits)
AND CHOOSE any two additional 4-credit Economics electives	

101-103 Principles of Economics Two semesters

An introduction to the methodology and analytical tools used by economists. Economic theory, policy and history are examined with major emphasis placed on macroeconomics (101) and microeconomics (103). Students may start with either EC 101 or 103; they need not take both semesters to get credit.

Three credits each semester. SOCIAL SCIENCE LIBERAL STUDIES REQUIREMENT.

107 Elements of Economics Not Offered in 1992-93

An introductory study of basic economic institutions and selected economic problems. The elementary principles of economic theory are developed and applied to the analysis of selected real-world problems.

Not open to Economics or Business Administration majors. No credit will be granted for Economics 107 after Economics 101 or 103 have been taken. Three credits. SOCIAL SCIENCE LIBERAL STUDIES REQUIREMENT.

205 Statistics for Economics Fall

The development of elementary statistical theory, with applications to selected problems in economics. Topics include descriptive statistics, probability theory, and estimation, with special emphasis on hypothesis testing and regression analysis.

Open only to Economics majors. Four credits. With permission of the instructor, may be taken concurrently with Economics 101.

207 Mathematics for Economists Spring

An introduction to calculus and its application to economic theory. Topics include static models; elasticity and partial elasticity; minimization, maximization, and constrained optimization; integrals; and dynamic models.

Open only to Economics majors and minors. Prerequisites: Economics 101-103 or permission of the instructor. Four credits.

301 History of Economic Thought*Spring*

A survey of major schools of economic thought and the principal developments and debates in economic theory. Discussion begins with Aristotle, but the emphasis is on developments beginning with "modern" economics, about 1800, and concluding with an outline of some current trends in economic thought.

Prerequisites: Economics 101-03 or permission of instructor. Four credits. SOCIAL SCIENCE LIBERAL STUDIES REQUIREMENT.

303 Public Finance*Not Offered in 1992-93*

Study of the theoretical and actual role of government in the economy and of the governmental budget-making process. The focus is on the various tax and spending programs used to achieve economic goals, with emphasis on the federal level of government in the U.S. Includes some study of state and local governments, as well as international comparisons.

Prerequisites: Economics 101-103 or permission of instructor. Three credits.

305 Urban Economics*Not Offered in 1992-93*

Examines the strengths and weaknesses of urban areas. This course studies the complex interaction of political, sociological, and economic factors affecting urban areas, and emphasizes standard analytical tools for urban economic analysis.

Prerequisites: Economics 101-103 or permission of instructor. Three credits.

311 Macroeconomic Theory*Fall*

Concentrated study of economic theory at the "macro" level. Examines topics such as consumer behavior, investment expenditures, government taxes and expenditures, with a view toward providing a consistent model of income determination. Among the topics examined with this model are fiscal versus monetary policy, balance of payment deficits, growth of an economy through time, inflation, and unemployment.

Prerequisites: Economics 101-103 or permission of instructor. Four credits.

312 Microeconomic Theory*Spring*

Study of economic theory and applications at the "micro" level. Topics may include the development of demand theory, the determination of optimum output levels for the individual firm and industry, and determination of rewards for inputs to production. The propositions of welfare economics are considered, and general equilibrium analysis provides an overview of the system as a whole.

Prerequisites: Economics 101-103 or permission of instructor. Four credits.

313 Economic History of North America*Not Offered in 1992-93*

Examination of determinants of economic growth in the U.S. from colonial times to the present, and of comparable aspects in Canadian and Mexican development. Included are institutional changes, evolution of government policy, assessment of economic performance, and economic relations among North American regions and between North America and other parts of the world.

Prerequisites: Economics 101-103 or permission of instructor. Three credits.

315 Comparative Economic Systems *Alternate Years, Fall*

Study of major contemporary economic systems, both in their "pure" forms and as actually observed. Topics include the structure, policy making, and performance of various types of capitalist systems; the problems encountered as nations modify their economic institutions and goals; and especially current problems of economic integration in Europe.

Prerequisites: Economics 101-103 or permission of instructor. Four credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

317 International Economics *Spring*

An overview of the nature of and reasons for international movements of merchandise and factors of production, the measurement of balance of payments transactions, the determination of exchange rates, and other topics. This course includes theoretical analysis, brief historical background, and coverage of contemporary issues in policy coordination and trade negotiation.

Prerequisites: Economics 101-103 or permission of instructor. Four credits.

321 Economic Development *Alternate Years, Fall*

Study of theories explaining economic growth and of the problems and policy choices associated with industrialization. The course emphasizes nations currently seeking to develop, with some examination of the past growth experience of industrialized countries.

Prerequisites: Economics 101-103 or permission of instructor. Four credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

327, 329 Topics in Economics *Not Offered in 1992-93*

Intermediate seminar, the subject matter of which will vary from year to year depending on staffing. Enrollment will be limited and preference given to juniors. Consult with the instructor before enrolling to ascertain topics to be studied. Up to two Topics courses may be counted as Economics electives.

Prerequisites: Economics 101-103 and Junior or Senior standing. Three credits each.

331 Economics of the Labor Market *Alternate Years, Spring*

Analysis of current labor market theories and experience. Topics include labor force characteristics, labor supply and demand, wages, human capital investment, discrimination, income inequality, and unemployment. Also included is an appraisal of the effects of unions and of government policies on the economic position of labor.

Prerequisites: Economics 101-103 or permission of instructor. Four credits.

335 Money and Banking *Not Offered in 1992-93*

A study of the theories and institutions of the monetary and credit system. Focus is on the role of money and credit in the U.S. economy and their impact on such variables as prices, wages, and investment. The course will emphasize recent developments, with particular attention to recent regulatory changes and their impact on the effectiveness of monetary policy.

Prerequisites: Economics 101-103. Three credits.

- 339 Business and Government** *Not Offered in 1992-93*
 An examination of analytical and empirical problems in government policies toward business. Topics include market and government failures, antitrust and monopoly problems, and the effects of regulation and deregulation. Emphasis on economic analysis as a guide for the formulation and evaluation of government policy.
Prerequisites: Economics 101-103 or permission of instructor. Three credits.
- 341 Economic and Social History of Medieval Europe, 400-1400 (See History 341)** *Not Offered in 1992-93*
 An exploration of the major issues in European economic and social history from the decline of the Roman Empire through the consequences of the 14th-century crisis. Topics include the decline of slavery, the emergence of a European peasantry, the role of women in the economy, peasant rebellions, and the Black Death.
Prerequisites for Economics credit: Economics 101-103. Three credits.
- 391 Introduction to Econometrics** *Alternate Years, Fall*
 A survey of economics devoted to the statistical testing of propositions derived from economic theory. Both the derivation and application of such tests will be covered, with emphasis on multiple regression analysis. No prior computer experience is required; students will be introduced to widely-used statistical programs such as SPSS and TSP. Recommended for students going to graduate school in economics.
Prerequisites: Economics 101-103 and one course in statistics. Four credits.
- 395 Modern Quebec (See French 395)** *Not Offered in 1992-93*
 A study of the culture, history, economic institutions, and traditions of Quebec and her peoples. The focus is on post-World War II changes in self-awareness, living standards, cultural expressions, political participation, economic institutions, and the socio-economic position of francophone Quebecois.
Prerequisites: Economics 101-103 or permission of instructor. Three credits.
- 410 Senior Seminar in Economics** *Two semesters*
 The first semester involves a review and discussion of current topics in the field of economics. Students will also be expected to present an original research proposal. During the second semester they will complete the research and submit the final draft. Close guidance will be provided by the instructor.
Open only to Economics majors who have completed all other requirements for the major or who are concurrently completing the major by taking one or two 300-level courses. Two credits each semester.

DEPARTMENT OF EDUCATION

DR. LAIMA RUOFF, CHAIR; HILLMAN, KENNY, STOCKTON, TOOMEY.

The Education Department oversees three programs: Elementary Education Licensure, an Elementary Education Major, and Secondary Education Licensure. Students who successfully complete one of these programs are granted licensure by

the State of Vermont. This license is accepted in many other states having reciprocal agreements with the State of Vermont.

In order to be eligible for licensure as a teacher, a student must complete a major in one of the liberal arts or sciences at St. Michael's College. Teacher education courses may be taken simultaneously with courses in the liberal arts and sciences. Usually, a student will be able to complete the major and teacher licensure requirements in a four-year span. Students who wish to be licensed at the secondary level may do so in one of the following academic areas: Art, Biology, Chemistry, English, Environmental Science, French, Latin, Mathematics, Music, Social Studies, and Spanish.

All the programs are characterized by courses that demand a high degree of commitment on the student's part. This commitment is to children and adolescents, as frequently students are working in school settings, and to learning, both personal and professional. Students are required to maintain a "B" average before student-teaching and at graduation. Other specific requirements are articulated in the St. Michael's College *Guide to Teacher Education Programs* available in the Department Chair's office.

Secondary Teaching Licensure

In addition to licensure in Elementary Education, students may also pursue a secondary teaching license in several disciplines. The following academic areas are included: art, biology, chemistry, English, environmental science, French, Latin, mathematics, music, social studies, and Spanish.

REQUIRED FOR ELEMENTARY EDUCATION - LICENSURE

IN ADDITION TO THE COURSES LISTED BELOW, A STUDENT MUST ALSO COMPLETE A MAJOR IN ONE OF THE LIBERAL ARTS OR SCIENCES.

ED231	Schools and Society (3 credits)
ED251	Child and Adolescent Development (3 credits)
	Liberal Arts and Pedagogy:
ED261	Humanities (1 credit)
ED263	Math & Science (1 credit)
ED265	Interdisciplinary (1 credit)
ED311	Individual Differences in Learners (4 credits)
ED331	Teaching Reading & Language Arts (3 credits)
ED337	Elementary Math Methods (4 credits)
ED401	Reading Diagnosis (2 credits)
ED421	Internship I (7 credits)
ED429	Classroom Management (2 credits)

REQUIRED FOR SECONDARY EDUCATION - LICENSURE

IN ADDITION TO THE COURSES LISTED BELOW, A STUDENT MUST ALSO COMPLETE A MAJOR IN ONE OF THE LIBERAL ARTS OR SCIENCES.

ED231	Schools and Society (3 credits)
ED257	Learning and the Liberal Arts (3 credits)
ED317	Secondary Methods (3 credits)
ED361	Secondary Education (3 credits)
ED411	Cognition and Individual Differences (4 credits)
ED424	Practice Teaching (9 credits)

ED427 Seminar in Minimum Objectives (3 credits)

REQUIRED FOR ELEMENTARY EDUCATION - MAJOR
IN ADDITION TO THE COURSES LISTED BELOW, A STUDENT
MUST ALSO COMPLETE A MAJOR IN ONE OF THE LIBERAL ARTS
OR SCIENCES.

ED231 Schools and Society (3 credits)

ED251 Child and Adolescent Development (3 credits)

Liberal Arts and Pedagogy:

ED261 Humanities (1 credit)

ED263 Math & Science (1 credit)

ED265 Interdisciplinary (1 credit)

ED311 Individual Differences in Learners (4 credits)

ED331 Teaching Reading & Language Arts (3 credits)

ED337 Elementary Math Methods (4 credits)

ED401 Reading Diagnosis (2 credits)

ED403 Learning and Technology (2 credits)

ED421 Internship I (7 credits)

ED423 Internship II (3 credits)

ED429 Classroom Management (2 credits)

231 Schools and Society

Fall and Spring

Focuses on the three modules that make up the essence of teaching as a profession--context, learning, and teaching. The context module engages students in active observation in schools, and in reflection on how their observation (approximately 30 hours) relates to issues in education. The learning module engages students in a study of self as learner. Students examine the kinds of skills and strategies they need to excel as learners. The teaching module introduces students to styles and techniques of teaching in both the cognitive and affective domain. Students use their observations in schools and in their own classes to examine both classic and innovative approaches to teaching, considering the use of technology, lecture, cooperative learning, integrated curriculum, discovery, and self-directed learning.

Three credits.

241 Literature for Children and Youth

Spring

The literary genres of fantasy, folklore, prose fiction, picture books, biography, and information. Discussions will focus on content analyses, psychological aspects of literature, children's interests, literary standards of evaluation, and how to use literature in the classroom and media center. Students are expected to read a substantial number of adolescent and children's books.

Three credits.

251 Child and Adolescent Development

Fall and Spring

Growth and development of the child and adolescent, with an emphasis on the understanding of this growth and development in relationship to the learning process. Consideration of the social, emotional, physical, and intellectual growth processes of the learner. Cultural factors that impinge on the child and adolescent in the school setting will be discussed.

Three credits.

257 Learning and the Liberal Arts and Sciences

Spring

Required for the Secondary Education License. The course aims to enable future high-school teachers to understand current learning theory research and its application in designing and teaching high school and middle school students.

Three credits.

261 Liberal Arts and Pedagogy--Humanities

Not offered in 1992-93

A weekly seminar focused on developing teaching strategies based on content from the humanities courses in the Liberal Studies requirements.

One credit.

**263 Liberal Arts and Pedagogy--
Math and Science**

Not offered in 1992-93

The teaching of math and science concepts.

One credit.

**265 Liberal Arts and Pedagogy--
Interdisciplinary**

Not offered in 1992-93

Focuses on creating an interdisciplinary unit for an elementary school classroom. Student-teachers will demonstrate knowledge of their major fields and the liberal arts and sciences, including such concepts as global awareness, numerical literacy, appreciation of the fine arts, and the ability to think critically.

One credit.

311 Individual Differences in Learners

Fall and Spring

An overview of the many kinds of handicapping conditions teachers can expect to encounter in classrooms, from the developmentally disabled to the learning disabled. Diagnostic tests and measurements are presented and curriculum materials will be designed for classroom use. Provision is made for a student's particular area of interest, and participation in schools is required. Some attention will be focused on the gifted child as well.

Four credits.

315 Contemporary Education

Not offered in 1992-93

Enables the student to develop an awareness and understanding of current educational issues. Topics may include PL 42-142, special education, mainstreaming, use of computers, the rationale for competency-based programs, new approaches to reading, and bilingual education.

Three credits.

317 Secondary Methods

Fall and Spring

Coincides with the practice teaching session. Students will be given some theoretical basis for the various methodologies, classroom organization and management.

Three credits.

- 331 Teaching Reading and Language Arts** *Fall and Spring*
 Methods in the successful teaching and learning of reading and writing. Topics include whole language, phonics, language conventions, basal systems, and spelling.
Three credits.
- 337 Elementary Mathematics Methods** *Fall and Spring*
 Emphasizes diagnostic teaching in the context of a general approach to mathematics instruction. The course involves practical procedures for developing the ability to master content and evaluate effective instructional processes. Use of manipulative materials and on-site classroom experiences are integral components.
Four credits.
- 343 Reading in the Secondary School** *Not Offered in 1992-93*
 Considers reading as a thinking process, examining its relationship to the acquisition of basic concepts in math, the social sciences, and other disciplines. Topics will include the range of reading ability in classrooms, the deficiencies of textbook presentations, and the acquisition of reading and study skills. Students will be expected to determine the readability of certain assignments, construct study guides, and adapt an informal inventory to a subject matter area for diagnostic purposes.
Three credits.
- 361 Secondary Education** *Fall*
 The methods and goals of secondary education. Analysis of the social role of the American high school from a historical view. Other topics include adolescent psychology, technical vocational programs, scheduling, competency-based programs and Vermont Standards for Certification.
Three credits.
- 401 Reading Diagnosis** *Not offered in 1992-93*
 Focuses on assessing reading and writing traits and abilities with informal and formal tests and measurements.
To be taken concurrently with Education 421. Two credits.
- 403 Learning and Technology** *Spring*
 Familiarizes students with computer technologies and how to manage them in a classroom. The focus will be matching learning goals to the appropriate technology.
Two credits.

- 411 Cognition and Individual Differences** *Fall*
Examines the cognitive skills and development of the pre-adolescent, adolescent and young adult learner. Three major areas are explored and integrated: cognition, individual differences, and academic content. Individual differences are examined from the perspectives of the development, psychometric and cognitive styles of literature. Using the understanding gained from an examination of how individuals differ in cognitive skills, students will explore the relationship between cognitive skills and content mastery.
Four credits.
- 421 Internship I** *Fall and Spring*
A semester of teaching under the direct supervision of a licensed teacher in an elementary classroom. A full-time, full-semester internship complemented by seminars in reading diagnosis and classroom management. In addition, the multi-disciplinary unit is prepared and taught.
Prerequisite: Education 231. To be taken concurrently with Education 401. Seven credits.
- 423 Internship II** *Fall and Spring*
Extends the field-work experience of teacher candidates, requiring placement in an elementary or secondary school for an extensive period of time, such as two and a half school days per week or every morning.
By arrangement. Three credits.
- 424 Practice Teaching (Secondary)** *Fall and Spring*
Students will spend approximately 15 weeks on assignment with a specific cooperating teacher. During this time the various components of teaching are to be tried, developed and evaluated.
Nine credits.
- 427 Seminar in "Minimum Objectives for Teacher Candidates"** *Fall and Spring*
Taken concurrently with practice teaching, this seminar meets weekly during the supervisor's visits to the practicum site so that the student and supervisor can discuss and record the acquisition of the objectives or competencies required for licensure.
Three credits.
- 429 Classroom Management** *Fall and Spring*
Taken concurrently with Internship I, this seminar meets weekly to discuss and analyze classroom discipline techniques, individualization, small-group teaching, peer-tutoring, learning centers, record-keeping, evaluation, parent involvement, and other pertinent topics.
Two credits.

ENGINEERING

SAINT MICHAEL'S - CLARKSON UNIVERSITY PROGRAM

Saint Michael's College has established an agreement with Clarkson University in Potsdam, New York that allows students to follow an engineering program leading to two separate degrees: a B.A. in "3 + 2 Engineering" from Saint Michael's and a B.S. in Engineering from Clarkson. Students will complete three years of course work and residency at Saint Michael's College, fulfilling all of the Liberal Studies requirements as well as the basic course requirements for the engineering program. Afterwards students will apply for transfer to Clarkson University for the last two years of course work and residency. This five-year program is designed to prepare students in the more specialized fields of engineering: Chemical, Civil & Environmental, Electrical & Computer, and Mechanical & Industrial.

In addition to this specialization, the Saint Michael's portion of the program contributes considerable breadth in the liberal arts and sciences, more than is typically available in a conventional engineering program. The goal of our 3 + 2 engineering program is to produce expert engineers who are both knowledgeable and concerned about the society in which they work.

Below is a listing of the basic courses required as part of the Saint Michael's portion of the 3 + 2 Engineering Curriculum:

REQUIRED:

MA109	Calculus I (4 credits)
MA111	Calculus II (4 credits)
MA211	Calculus III (4 credits)
MA303	Differential Equations (4 credits)
MA309	Linear Algebra (4 credits)
PY151	Electronics (4 credits)
PY210	College Physics (4 credits)
PY212	College Physics (4 credits)
CS101	Computer Programming I (4 credits)
CH103	Stoichiometry (4 credits)
CH107	Chemical Bonding & Energetics (4 credits)

RECOMMENDED:

MA317	Applied Mathematics (4 credits)
CS103	Computer Programming II (4 credits)
One course in Statistics, i.e. MA250 (4 credits)	

Students concentrating in Chemical Engineering should include the following:

CH204	Organic Chemistry (4 credits)
CH206	Organic Chemistry (4 credits)
CH302	Physical Chemistry I (3 credits)
CH304	Physical Chemistry II (5 credits)

Other courses should be chosen in close consultation with the pre-engineering advisor. As soon as possible after completing the second year of undergraduate study, engineering students should submit an official "Clarkson University Application for Admission and Assistance" form. All requests for applications should be sent to: **Dean of the Engineering School, Clarkson University, Potsdam, New York 13676.**

DEPARTMENT OF ENGLISH

DR. CAREY KAPLAN, *CHAIR*; BALUTANSKY, CLARY, ENGELS, INNESS-BROWN, McDONOUGH, NIEMI, REISS, ROOT, SHEA, SMITH; DELANTY, MARQUESS, *LECTURERS*; MURPHY, *EMERITUS*.

Poetry, drama, and fiction have great power to convey knowledge of human existence. Most religious and philosophical thinkers have taught by fable, parable, allegory, and poetry. Knowledge of literature, coupled with the ability to read critically and write effectively, are worthy aims for students, whatever their career goals.

English Department offerings include courses in literature, language, writing, and film. There are courses in British, American, and world literatures. The department encourages students to study early and recent writers, various genres, the literatures of diverse cultures, creative writing of poetry, fiction, and nonfiction, and critical theory.

All English courses are writing-intensive, and majors must maintain a high level of written expression. In addition, majors will be expected to learn and use the skills of literary scholarship. Clearly, the student who is uncomfortable writing and reading should eschew the major; those with a grade below C in English 123 will be discouraged from continuing in it.

Although the department offers no concentration in writing as such, students may select from a range of writing courses. Those wishing to continue to graduate school in writing are encouraged to take a course in each genre; in the senior year, they may seek approval for an independent study or internship in the genre they wish to pursue. For a few students, such study may, with the Chair's consent and production of a substantial portfolio of finished work, substitute for the senior seminar.

The department offers an honors program for outstanding students. English majors chosen for the program will be invited to participate in the English Honors Seminar (English 450).

Students transferring into English from other majors must have an overall 2.0 grade point average and departmental approval.

REQUIRED FOR THE ENGLISH MAJOR:

- EN123 Introduction to Literary Studies (3 credits)
- EN325 Literary Criticism (4 credits)
- EN251 American Literature I (3 credits) **OR**
- EN253 American Literature II (3 credits)
- EN219 British Literature I (3 credits) **OR**
- EN221 British Literature II (3 credits)
- EN410 Senior Seminar (4 credits)

AND CHOOSE five additional English courses, four of which must be at the 300 and 400 level.

Optional English electives (to cap of 45 credits)

REQUIRED FOR THE ENGLISH MINOR:

- EN123 Introduction to Literary Studies (3 credits)
- EN251 American Literature I (3 credits) **OR**
- EN253 American Literature II (3 credits)

EN219 British Literature I (3 credits) **OR**

EN221 British Literature II (3 credits)

AND CHOOSE three additional English courses at the 300 or 400 level.

One semester of intensive study in a Modern Language (5 credits) or one semester of Modern Language Literature taught in a foreign language will count as one course towards the English major.

The minimum total number of English courses to complete the major is ten. The maximum number of credits in English may not exceed 45.

Drama 203, 301, 302, 303 and 307 may count toward the major, as may Communications 205 and 207. One 5-credit intensive foreign language course may count toward the major; one semester of a foreign language *in the language* may also count. No more than two of these courses will count toward minimum requirements in the major, and none will satisfy three or four hundred level requirements in the major.

101 Writing I

Fall and Spring

Introduces students to writing as a process (from generating and developing ideas through drafting, revising, and editing), giving them basic skills through which they may continue to improve as writers. Students will write continuously and revise selected pieces extensively, including at least one paper that incorporates basic research skills and argumentation.

Four credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT. This course will not count toward the English major, though majors may take it.

123 Introduction to Literary Studies

Fall and Spring

Intensive training in the close reading and analysis of poems, plays, and short stories. Students will be expected to acquire a critical vocabulary and master basic concepts of literary form, structure, and technique.

English majors should take this course before any other literature course. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

201 Writing II

Fall and Spring

A workshop in nonfiction prose for those who enjoy writing and want to work seriously to develop their sense of voice, style, and form. Class time focuses on revision and editing of student writing. Students are expected to generate their own subjects, to write a great deal, and to produce a substantial portfolio of finished work.

Prerequisite: English 101 with a B or better, or permission of instructor. Four credits. COMMUNICATIONS SKILLS LIBERAL STUDIES REQUIREMENT.

211 Genres: Poetry

Fall and Spring

An intensive study of poetic forms. Recommended for English majors who have completed English 123.

Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

212 Genres: Fiction

Fall and Spring

An intensive study of fiction. Recommended for majors who have completed English 123.

Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

213 Genres: Drama

Spring

An intensive study of types of drama, ranging from classical comedy and tragedy to 20th-century experiments in realism and non-realism. Recommended for majors who have completed English 123.

Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

214 Genres: Film

Fall and Spring

A study of the feature film as an art form using methods somewhat similar to those used in the study of literature. Each week students will view and discuss one or two films which represent a variety of genres, directors, countries and techniques. Attention will be paid to both film criticism and film technique.

Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

219 British Literature I

Spring

A survey of British literature from *Beowulf* to 1789.

Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

221 British Literature II

Spring

A continuation of the survey from 1789 to the mid-20th century.

Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

223-225 Poetry Writing

Spring

An introductory workshop, designed to provide practical experience in the reading, writing and analysis of poems. Through first-hand experience of writing poems, which are then discussed in class, students will develop practical critical ability, as well as an appreciation of the problems poets face and overcome.

Students may elect either semester or both. Four credits each semester.

227-229 Fiction Writing

Spring

A workshop that introduces students to the techniques and processes of writing fiction. Along the way, it helps students develop critical ability and appreciation of the art and craft of fiction.

Prerequisite: permission of instructor. Students may elect either semester or both. Four credits each semester.

251 American Literature I

Fall

A survey of American writers, canonical and non-canonical, from Colonial times to the late nineteenth century.

Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

- 253 American Literature II** *Fall*
 A survey of American writers, canonical and non-canonical, from the late nineteenth century to the 1990s.
Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.
- 301 Chaucer** *Spring*
 A survey of Chaucer's poetry, concentrating on *Canterbury Tales*.
Four credits.
- 303 Medieval Literature** *Not Offered in 1992-93*
 A selection of English and European works, varying from year to year, but emphasizing the romance, read in translation.
Four credits.
- 305 Shakespeare** *Spring*
 Provides a sound understanding of Shakespeare's career as a dramatic artist. Representative histories, tragedies, and comedies will be dealt with chronologically. Students should expect to read at least a dozen plays during the semester and to concern themselves with matters both theatrical and aesthetic.
Four credits. LITERARY LIBERAL STUDIES REQUIREMENT.
- 309 Milton** *Not offered in 1992-93*
 Milton's important works, including *L'Allegro/II Penseroso*, *Comus*, *Lycidas*, *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes* as well as selected prose that bears a particular relationship to his poetry.
Four credits.
- 311 American Renaissance** *Fall*
 A study of the major works of Emerson, Thoreau, Hawthorne, Melville, and Whitman, with an emphasis on F. O. Matthiessen's interpretation of the 1850-1855 literary period.
Four credits.
- 313 American Naturalism** *Spring*
 A study of American fiction from Stephen Crane to William Faulkner, with special emphasis on the work of Fitzgerald, Hemingway, and Faulkner.
Four credits.
- 314 Teaching Writing** *Fall*
 Prepares students to be editors, writers, or writing teachers at the elementary, secondary, or college level. Topics include the "codes" of language (grammar, punctuation, mechanics, usage) as well as the writing process, with a focus on current teaching methods and writing across the curriculum. Students write a great deal themselves and work several hours a week in the Writing Center. Required for tutors in the Writing Center, and recommended for students seeking teacher certification.
Prerequisite: permission of instructor. Four credits.

- 317 English Etymology:
Greek and Latin (see Classics 317)** *Not Offered in 1992-93*
An introduction to the history of the Indo-European family of languages, followed by a study of the most common morphological changes in the Indo-European groups and the radical phonetic changes in the Germanic group. The course will emphasize word formation and proper definition. One of the major emphases will be on the derivation of English words from Greek bases and word analysis, with special attention to unfamiliar but useful words. A study of Latin bases, prefixes and suffixes will provide necessary background for understanding the role of Latinate expressions in current literary use and facilitate the progression from etymological to current semantic or metaphorical meaning. Attention will be given to word formation in scientific and technical terminology, abbreviations, and to Latin phrases and technical terms in current English use.
Three credits. This course will not count toward the 300 and 400 level requirements for the English major or minor.
- 319 Modern World Literature I** *Fall*
Works from the literatures of Africa, Asia, or Latin America. Specific writers and works will be chosen each semester.
Four credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.
- 321 Modern World Literature II** *Spring*
Similar to English 319, with a different selection of writers.
Four credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.
- 325 Critical Theory** *Fall and Spring*
An introduction to such schools of critical theory as feminism, marxism, psychoanalysis, deconstruction, post-structuralism, and reader response. Students will learn to read, write, and think critically.
Prerequisite: English 123. Four credits.
- 335 The Age of Wit:
Eighteenth-Century Literature** *Fall*
A survey of the major poets and prose writers from Dryden to Burns.
Four credits.
- 337 The British Romantic Poets** *Fall*
Works of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.
Four credits.
- 341 Modern American Poetry** *Not Offered in 1992-93*
Study of the stylistic innovations of early twentieth-century poetry in relation to the historical and cultural backgrounds of Modernism. Poets may include Eliot, Pound, H.D., Williams, Stevens, Frost, Stein, and Hughes.
Four credits.

- 343 Contemporary American Poetry** *Spring*
 Study of selected American poets since World War II, with emphasis on the diversity of voices in American poetry.
Four credits.
- 347 Romanticism and Revolution** *Not offered in 1992-93*
 (see Humanities 347)
 Considers the era of the French and Industrial Revolutions (1789-1848), when Europe underwent a dramatic social and cultural transformation. Drawing on the disciplines of history, literature, and fine arts, the course will focus on the response of intellectuals and artists to this "dual revolution." Authors may include: Wordsworth, Byron, Goethe, Marx, and Stendhal.
Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.
- 355 Origins of the Novel** *Not offered in 1992-93*
 Readings will include novels by Bunyan, Defoe, Richardson, Fielding, Burney, Sterne, and others.
Four credits.
- 357 The Victorian Novel** *Fall*
 Readings will include novels by Scott, Austen, Bronte, Dickens, Thackeray, Meredith, Hardy, Conrad and others.
Four credits.
- 359 Twentieth-Century British Novel** *Not Offered in 1992-93*
 Readings will include novels by Lawrence, Lessing, Forster, Huxley, Burgess, Sillitoe, and others.
Four credits.
- 361 Nineteenth-Century European Novel** *Spring*
 Emphasis will be placed on the major French and Russian novelists, Stendhal, Flaubert, Balzac, and Tolstoy and Dostoevsky.
Four credits.
- 363 Twentieth-Century European Novel** *Spring*
 Readings will include works by Gide, Proust, Sartre, Mann, Hesse, Musil, Unamuno, Silone, Kazantzakis, and others.
Four credits.
- 389 Major British Writers** *Not Offered in 1992-93*
 Emphasizes the work of one to four major British writers. Examples of combinations of writers studied in this course are: Austen and Dickens; Coleridge, Hazlitt, Ruskin, Pater; Hardy, Lawrence; Arnold, Yeats, Auden.
Four credits.

391 Major British Writers

Fall

Similar to English 389, with a different selection of writers.

Four credits.

393 Major American Writers

Not Offered in 1992-93

Emphasizes the work of one to four major American writers. Examples of writers and combinations of writers studied in this course are: Dickinson, Frost, Stevens, James, Hemingway and Faulkner.

Three credits.

395 Major American Writers

Not Offered in 1992-93

Similar to English 393, with a different selection of writers.

Three credits.

405 History of the English Language

Not Offered in 1992-93

Covers the structural changes in English from its Indo-European roots to its contemporary form. The second half of the course will explore the ideological struggles surrounding the development of the language, including the problems of gender and language, ethnic dialects, class difference, and propaganda.

Three credits.

407 African-American Literature

Fall

Survey of literature by African-American writers from the time of slavery to the present. Readings will include fiction, poetry, autobiographies, and essays; the course will consider current theoretical issues in the study of black culture and literature and the American literary canon.

Four credits. LITERARY LIBERAL STUDIES REQUIREMENT.

409 Irish Literature

Spring

Surveys a selection of writers and works, and may emphasize a particular genre or focus on a few major authors for special study.

Four credits.

410 Senior Seminar in English

Fall and Spring

Designed to be an English major's most important course, the one in which students do their best work and most fully demonstrate the skills acquired in the previous years of reading, writing, and studying. As much as possible, student choice of subject matter will be honored.

Four credits.

413 Ad Hoc Seminar in English

Fall or Spring

A seminar open to a small group of students who agree with the instructor on a topic not otherwise offered by the department. For further information see Department Chair.

Prerequisite: permission of instructor. Three credits.

- 415 King Arthur and His Knights** **Not Offered in 1992-93**
 An eclectic, multi-media survey ranging from the history of Geoffrey of Monmouth to the films of Monty Python.
Four credits.

- 420 Tutorial in Independent Studies** **By arrangement**
 An independent project pursued in consultation with an English instructor. Only students with a B average in the English major may register for this course.
Prerequisite: permission of instructor. Three credits.

- 425 Politics and Literature** **Not Offered in 1992-93**
 (see Political Science 425)
 An interdisciplinary examination of how the study of politics and the study of literature can interrelate and enhance each other. The thematic focus in recent years has been the Vietnam War. (Taught with an instructor from the Political Science Department.)
Four credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

- 450 English Honors Seminar** **Spring**
 Each spring semester the Department of English faculty elects six to twelve English Honors Scholars who will be sophomores, juniors and seniors during the following academic year. The choice of subject (for example, Satire, American Idealism) will be made by the instructor after consultation with the elected students and does not duplicate courses already listed.
Open only to English Honors Scholars. Four credits.

ENVIRONMENTAL SCIENCE PROGRAM

DR. DANIEL J. BEAN, COORDINATOR.

The program in environmental science is designed to provide a foundation in the physical and biological sciences coupled with an understanding of the socio-economic influences involved in environmental decision-making.

The broad spectrum of required courses is designed to inculcate methods and insights so that the student's judgements on environmental problems will reflect a balance between scientific and socio-economic viewpoints.

REQUIRED FOR THE ENVIRONMENTAL SCIENCE PROGRAM:

BI101	General Biology (4 credits)
BI103	General Biology (4 credits)
BI205	Biological Reading & Writing (3 credits)
BI206	Field Biology (4 credits)
BI221	Ecology (4 credits)
BI315	Microbiology (4 credits)
CH105	Stoichiometry (5 credits)

CH109	Chemical Bonding & Energetics (5 credits)
CH204	Organic Chemistry (4 credits)
CH410	Seminar (3 credits)
CH413	Instrumental Analysis (4 credits)
CH421	Chemical Research (3 credits)
CS101	Computer Programming I (4 credits)
MA102	Elementary Statistics (3 credits)
MA103	Elements of Calculus (3 credits) OR
MA109	Calculus I (4 credits)
PY210	College Physics (4 credits) OR
PY220	Physics for Biologists (4 credits)
PY212	College Physics (4 credits) OR
PY222	Physics for Biologists (4 credits)
PO324	Environmental Politics (3 credits)
SO305	Population Analysis (3 credits)

Strongly Recommended:

CH206	Organic Chemistry (4 credits)
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Electives will be chosen by the student in consultation with an advisor so as to satisfy the needs and interests of each student. The election of additional Math/Science courses is strongly encouraged. Although only one semester of research is required, students often obtain additional research credits by enrolling in Chemistry 423.

BIOLOGY

101-103 General Biology

Two semesters

A comprehensive introduction to the concepts of biology. Topics include cell structure, cell and tissue types, plant and animal structure and function, classification and taxonomy, plant reproduction development, biochemistry, genetics, animal reproduction and development, evolution, ecology and behavior. The laboratory is designed to provide the student with fundamental experience in developing methods of biological observation and experimentation.

Required of Biochemistry, Biology, and Environmental Science majors and pre-health-care career students; others by permission of the department. Prerequisite: Biology 101 or 103. Four credits each semester. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

205 Biological Reading and Writing

Fall or Spring

Reading, writing, discussion and oral presentations in which the student learns to explore the fundamental sources of biological knowledge. The student may extend his/her study in any area of basic biological concepts that was considered during the general course. A close learning rapport is provided between the student and teacher.

Prerequisites: Biology 101-103. Limited to Biology, Biochemistry, and Environmental Science majors. Group discussions and individual consultations. Three credits.

206 Field Biology**Fall**

A study of local flora and fauna with emphasis on the techniques of collection identification and preservation of specimens. Lectures cover the taxonomic and phylogenetic aspects of the various organisms.

Prerequisite: Biology 101-103 or permission of instructor. Four credits.

221 Ecology**Spring**

The study of the responses of animals and communities to environmental change. Concepts of physical and biotic factors and their effects on the abundance and distribution of animals and plants are considered, as are principles of population structure, growth and energy flows in communities. Laboratories stress standard techniques of ecological research.

Prerequisite: Biology 101-103. Four credits.

315 Microbiology**Fall**

A study of the structure, development, growth and physiology of organisms classified as bacteria, algae and fungi; fundamental aspects of virology and immunology are discussed. Laboratory explores taxonomy and morphology as well as physiology and biochemistry of microorganisms. An independent research project is part of the laboratory.

Prerequisites: Biology 101-103, Chemistry 103-107 or 105-109, or permission of the instructor. Four credits.

CHEMISTRY**105 Stoichiometry****Fall**

A comprehensive study of quantitative relationships in chemical reactions. The laboratory presents an extensive study of qualitative and quantitative methods of chemical analysis.

Five credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

109 Chemical Bonding and Energetics**Spring**

The lecture covers atomic structure, bonding and molecular structure, thermodynamic relationships, reaction kinetics and acid base theory. The laboratory consists of a continued study of modern instrumental methods of quantitative and qualitative analysis.

Prerequisite: Chemistry 105 or permission of instructor. Five credits.

204 Organic Chemistry**Fall**

A study of organic reactions, with emphasis on functional groups, reactive intermediates, reaction mechanisms, and syntheses. The laboratory introduces students to organic laboratory techniques, with emphasis on syntheses, separations, and qualitative analysis by classical and instrumental methods.

Four credits.

410 Seminar

Spring

Familiarizes the student with the scientific literature. Each student will present a series of seminars based on current original environmental research reported in recognized journals.

Three credits.

413 Instrumental Analysis

Spring

Presents the theoretical and practical aspects of instrumental analytical chemistry. The laboratory consists of electrochemical, spectrometric, chromatographic, and radiometric methods of analysis. The course does not satisfy the requirements for an ACS-approved B.S. in chemistry.

Prerequisites: One year of college-level Physics and Chemistry 107 or 109, 207 or equivalent. Alternates with Chemistry 417. Offered in even-numbered years. Four credits.

421 Chemical Research

Fall or Spring

Provides the student with an opportunity to work on the solution of a local environmental problem or to develop new analytical procedures with application to environmental studies. A final report is required.

Three credits.

COMPUTER SCIENCE

101 Computer Programming I

Fall and Spring

An introduction to the fundamental concepts and techniques of computer science. Students will be introduced to operating systems, files, applications and programming languages. The discipline of algorithmic thinking will be developed through the presentation of the basic control and data structures and the implementation of the resulting algorithms in Pascal.

The required laboratory is designed to provide experience using the technology.

Four credits. NATURAL AND MATHEMATICAL SCIENCE LIBERAL STUDIES REQUIREMENT.

MATHEMATICS

102 Elementary Statistics

Fall and Spring

Nature of statistical methods, description of sample data, probability, probability distributions, sampling, estimation, hypothesis testing, and correlation and regression.

Non-majors only. Three credits.

103 Elements of Calculus

Fall and Spring

A one-semester survey calculus course. Not designed for those desiring a more rigorous investigation of the fundamental topics of calculus. Topics include derivatives and their applications, integration, and applications of the definite integral. Credit will not be given for Mathematics 103 if credit has already been received for Mathematics 105 or 109.

Prerequisites: Intermediate algebra and trigonometry or Mathematics 100. Three credits. NATURAL AND MATHEMATICAL SCIENCE LIBERAL STUDIES REQUIREMENT.

PHYSICS

210-212 College Physics

Two semesters

Develops the concepts of physics with a mathematical sophistication to challenge students with an interest in the physical sciences. The catholicity of physics is emphasized in a study of mechanics, thermodynamics, electricity and magnetism, optics, and modern physics.

Prerequisites: A one-semester course in Calculus (Mathematics 103 or equivalent), with a grade of C or better. Successful completion of Physics 210 is required in order to take Physics 212. Four credits each semester. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

POLITICAL SCIENCE

324 Environmental Politics

Fall

Examines the political dimension of humankind's relationship to the natural environment. Emphasis will be placed on the problems of natural resource use and pollution in the United States.

Three credits.

SOCIOLOGY

305 Population Analysis

Fall

Examines population size, distribution and composition, and the relationships between these factors and social and economic conditions. Particular attention will be paid to fertility and the underdeveloped areas of the world.

Four credits.

DEPARTMENT OF FINE ARTS

PROFESSOR DONALD RATHGEB, *CHAIR*; BLASDEL, HARRIGAN, LECLAIR, PETERSON (SCENE DESIGNER/TECHNICAL DIRECTOR), J. RATHGEB, RICHBOURG, TORTOLANO.

Fine Arts are important manifestations of the intellectual growth of the educated person. The liberal arts program at Saint Michael's College recognizes that all students should be aware of the significance of artistic media against a background of history and literature. Therefore, the department offers majors and minors in several disciplines and is part of the Liberal Studies requirement of the college.

The Fine Arts Department houses the disciplines of Fine and Performing arts: Art, Dance, Drama, Music, and Speech Communication. With a faculty of academics who are professional, producing artists in each of these areas, the department provides a broad-based understanding of the practice, the literature, and the theory of each discipline.

Towards this end, the department maintains spaces dedicated to classroom teaching, individual practice, group rehearsal, and performance for theatre works and music, as well as two art galleries for showing student works. In addition, Fine Arts sponsors groups in each of the major disciplines: mainstage productions; Drama Club,

Chorale, Wind Ensemble, Jazz Ensemble, and Dance Ensemble. All of the groups perform on campus, and the music groups also tour extensively.

The department offers majors in Art, Art Education, Drama, Music, and Music Education. Students may request minors in Art, Drama, and Music. The minor may be elected through the end of the junior year, and the student must achieve a minimum GPA of 2.0 in the minor to have it recorded on the transcript.

Students transferring into Fine Arts from other majors after the sophomore year must have overall a 2.0 GPA and permission of the Department Chair.

Licensure in Secondary Art or Music Education is available to qualified students who can meet all the state competency requirements in Art or Music and satisfactorily complete the Education licensure requirements. Those interested in Art or Music Secondary licensure should consult the Chair.

The Department of Fine Arts offers students the opportunity for Private Study with a Cooperating Artist on a variety of musical instruments or in voice. The fee for Private Study under this program is \$420 per semester for one credit (see page 36). A limited number of scholarships are available through the Department, with preference given first to majors in music or music education, minors in music or music education, and then to majors or minors in other Fine Arts disciplines. If scholarships remain after the needs of the Fine Arts students have been met, the scholarships are offered to students in the Saint Michael's community on a first-come basis. Registration must be made through the Chair of the Fine Arts Department by September 9 for the Fall, 1992 semester and by January 19 for the Spring, 1993 semester.

REQUIRED FOR THE FINE ARTS/ART MAJOR:

AR205 Drawing I (3 credits)

Two of three Histories (6 credits total):

AR305 History of Art (3 credits)

AR307 Modern Art (3 credits)

AR333 Art Since 1945 (3 credits)

One of two Painting courses (3 credits total):

AR309 Painting with Oil (3 credits) **OR**

AR311 Painting with Acrylic (3 credits)

One of two Sculpture courses (3 credits total):

AR401 Sculpture: Modeling/Casting (3 credits) **OR**

AR403 Sculpture: Carving/Construction (3 credits)

AND CHOOSE:

AR405 Printmaking: Relief Printing (3 credits)

AR407 Printmaking: Etching (3 credits)

FA410 Senior Seminar (4 credits)

IN ADDITION, CHOOSE one of two Art Tutorial courses (4 credits total):

AR411 Art Tutorial in Sculpture (4 credits) **OR**

AR415 Art Tutorial in Painting (4 credits)

ALSO CHOOSE one 3-credit Drama elective and one 3-credit Music elective

REQUIRED FOR THE FINE ARTS/DRAMA MAJOR:

DR201 Introduction to the Theatre (3 credits)

DR209 Fundamentals of Play Production (3 credits)

DR301 Chief Patterns of Western Drama I (4 credits)

DR302 Chief Patterns of Western Drama II (4 credits)

DR303 Contemporary Drama (4 credits)

- DR309 Principles of Play Direction (4 credits)
DR311 Principles of Acting I (4 credits)
FA410 Senior Fine Arts Seminar (4 credits)
AND CHOOSE two additional Drama electives

REQUIRED FOR THE FINE ARTS/MUSIC MAJOR:

- MU201 Theory I (3 credits)
MU203 Theory II (3 credits)
Three of the five Music Histories (12 credits total):
MU307 History of Music (4 credits)
MU309 History of Music, 1600-1750 (4 credits)
MU311 History of Music, 1750-1900 (4 credits)
MU313 History of Music, From 1900 (4 credits)
MU325 American Music II-History of Jazz (4 credits)

AND

- MU317 Theory III: Harmony (3 credits)
MU319 Theory IV: Harmony (3 credits)
MU331 Choral Conducting (3 credits)
FA410 Senior Seminar (4 credits)

Three years participation in one performance group @ 1 credit/year (3 credits total):

- MU397 Jazz Ensemble (1 credit per year) **OR**
MU398 Chorale (1 credit per year) **OR**
MU399 Concert Winds (1 credit per year) **OR**

Six semesters of private lessons with a Cooperating Artist @ 1 credit/semester (6 credits total):

- MU421 Cooperating Artist Program (1 credit/semester)

REQUIRED FOR THE FINE ARTS/ART EDUCATION MAJOR:

IN ADDITION TO EDUCATION COURSES TO BE SELECTED BY THE EDUCATION DEPARTMENT, THE FOLLOWING COURSES ARE REQUIRED IN ART:

- AR205 Drawing I (3 credits)
AR207 Drawing II (3 credits)
AR305 History of Art (3 credits)
AR307 Modern Art (3 credits)
AR309 Painting with Oil (3 credits)
AR311 Painting with Acrylic (3 credits)
AR401 Sculpture: Modeling/Casting (3 credits) **OR**
AR403 Sculpture: Carving/Construction (3 credits)

AND CHOOSE:

- AR405 Printmaking: Relief Printing (3 credits) **OR**
AR407 Printmaking: Etching (3 credits)
FA410 Senior Seminar (4 credits)
(Total of 34 credits)

IN ADDITION, CHOOSE one 3-credit Drama elective and one 3-credit Music elective.

ADMISSION REQUIREMENTS IN PROGRAM:

1. Admission is applied for at the end of the sophomore year.
2. Admission will be by interview and qualifying tests.

3. Students must show a knowledge of color theory in practical work, although not in all media (water, oil, acrylic or mixed, at this stage).
4. A portfolio must be presented demonstrating mastery in use of line, form and a value in drawing from observation; one and two point perspective; principles of composition.

REQUIRED FOR THE FINE ARTS/MUSIC EDUCATION MAJOR:

IN ADDITION TO THE COURSES LISTED BELOW, STUDENTS MUST COMPLETE EDUCATION COURSES TO BE DETERMINED BY THE EDUCATION DEPARTMENT.

Three of the four Theory courses (9 credits total)

- MU201 Theory I (3 credits)
MU203 Theory II (3 credits)
MU317 Theory III: Harmony (3 credits)
MU319 Theory IV: Harmony (3 credits)

Three of the five Music Histories (12 credits total):

- MU307 History of Music, Medieval and Renaissance (4 credits)
MU309 History of Music, 1600-1750 (4 credits)
MU311 History of Music, 1750-1900 (4 credits)
MU313 History of Music, From 1900 (4 credits)
MU325 American Music II-History of Jazz (4 credits)

AND

- MU331 Choral Conducting (3 credits)
MU351 Principles of Playing Woodwind Instruments (1 credit)
MU353 Principles of Playing Brass and Percussion Instruments (1 credit)
MU355 Principles of Playing String Instruments (1 credit)
FA410 Senior Seminar (4 credits)

Three years participation in one performance group @ 1 credit/year (3 credits total):

- MU397 Jazz Ensemble (1 credit per year)
MU398 Chorale (1 credit per year)
MU399 Concert Winds (1 credit per year)

Four semesters of private lessons with a Cooperating Artist @ 1 credit/semester (4 credits total):

- MU421 Cooperating Artist Program (1 credit/semester).

ADMISSION REQUIREMENTS for acceptance into the Music Education Program:

1. Ability to play a representative piece on the major instrument (e.g. Mozart's Clarinet Concerto).
2. Four years participation in high school band, orchestra, chorus or equivalent.
3. Piano requirement for instrumental: scales and primary chords, all keys. Piano will be required as secondary instrument and will be taught until basic competency requirements are met.
4. Music Education, Vocal:
 - A. Demonstrated ability to hear and sing in tune.
 - B. Fundamentals of breathing posture and diction.
 - C. Ability to sing an art song.

- D. Piano requirement for vocal: ability to accompany vocal arrangements.

Music instrument, Recital:

It is expected that students in music and music education declare a major instrument (orchestral instrument or voice), and perform in a recital once each semester. The performance will be a short composition, representative of the student's work.

Jury Exams, Piano:

Juries will be performed before the music faculty, the student's instructor, and the Chair of the Department, and will take place at noon on the Wednesday preceding the final class of each semester.

REQUIRED FOR THE FINE ARTS/ART MINOR:

Six courses, each three credits, including:

- AR203 Two Dimensional Design (3 credits) **OR**
- AR205 Drawing I (3 credits)
- AR305 History of Art (3 credits)
- AR307 Modern Art (3 credits) **OR**
- AR333 Art Since 1945 (3 credits)

AND CHOOSE one course from each of the three following groups:

Painting:

- AR309 Painting with Oil (3 credits) **OR**
- AR311 Painting with Acrylic (3 credits) **OR**
- AR321 Watercolor (3 credits)

Sculpture:

- AR401 Sculpture: Modeling/Casting (3 credits) **OR**
- AR403 Sculpture: Carving/Construction (3 credits)

Graphics:

- AR405 Printmaking: Relief Printing (3 credits)
- AR407 Printmaking: Etching (3 credits)

REQUIRED FOR THE FINE ARTS/DRAMA MINOR:

- DR201 Introduction to Theatre (3 credits)

Any two of the following:

- DR301 Chief Patterns of Western Drama I (4 credits)
- DR302 Chief Patterns of Western Drama II (4 credits)
- DR303 Contemporary Drama (4 credits)

AND CHOOSE any two of the following to reach a minimum of 17 credits:

- DR209 Fundamentals of Play Production (3 credits)
- DR309 Principles of Play Direction (4 credits)
- DR311 Principles of Acting I (4 credits)
- DR321 Playwriting (4 credits)
- DR331 Principles of Theatrical Design (3 credits)
- DR341 Advanced Theatrical Production (3 credits)
- DR401 Advanced Directing (4 credits)
- DR403 Principles of Acting II (4 credits)

REQUIRED FOR THE FINE ARTS/MUSIC MINOR:

- MU201 Theory I (3 credits)
- MU203 Theory II (3 credits)

Four courses chosen from:

- MU307 History of Music (4 credits)
- MU309 History of Music, 1600-1750 (4 credits)
- MU311 History of Music, 1750-1900 (4 credits)
- MU313 History of Music, From 1900 (4 credits)
- MU317 Theory III: Harmony (3 credits)
- MU319 Theory IV: Harmony (3 credits)
- MU321 American Musical Theatre (3 credits)
- MU323 American Music I (4 credits)
- MU325 American Music II-History of Jazz (4 credits)
- Annual Participation in **EITHER**:
- MU398 Chorale (1 credit per year) **OR**
- MU399 Concert Winds (1 credit per year) **OR**
- Two years of private lessons in either voice in instrumental:
- MU421 Cooperating Artist Program (1 credit/semester)

ART

203 Two-Dimensional Design/Theory and Fundamentals of Art

Fall and Spring

Fundamentals of drawing, perspective, composition, value, color and design. The ideas developed theoretically in this course will be put into practice in the studio workshop.

Three credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

205 Drawing I

Fall

An introduction to the fundamental elements of basic free-hand drawing, with emphasis on the development of keen observation, selective seeing, and sensitive interpretation of form using a variety of media. This course is a prerequisite for studio work and is required of Fine Arts majors with an Art emphasis. Studio fee \$25.

Three credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

207 Drawing II

Spring

Additional drawing experience with emphasis on development of the student's potential to reinforce and expand basic drawing techniques and to gain an appreciation of past and present works. Students use varied approaches and media such as pen and ink, wash and watercolor, with an emphasis on personal interpretations of ideas and feeling in visual terms. Studio fee \$25.

Prerequisites: Art 205 and permission of instructor. Three credits.

305 History of Art

Fall

An introduction to art styles in the Western world from the Paleolithic up to the French Revolution.

Three credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

307 Modern Art

Spring

A general survey of the visual arts of the Western world from Neo-Classicism to present avant-garde innovations.

Three credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

- 309 Painting with Oil** *Fall*
Creative work in principles of design, painting and the medium of oil paint. Studio fee \$25.
Prerequisites: Art 205 and permission of instructor. Three credits.
- 311 Painting with Acrylic** *Spring*
Exploration of the creative and expressive use of design principles, pictorial space, and abstract as well as representational subjects as they may be realized through painting with acrylic. Studio fee \$25.
Prerequisites: Art 205, 309, and permission of instructor. Three credits.
- 313 Western Calligraphy** *Fall and Spring*
The theory and practice of writing and lettering as an Art Form. Studio Fee \$25.
Three credits.
- 321 Watercolor** *Spring*
Principles, techniques and materials of watercolor painting. Studio fee \$25.
Prerequisites: Art 205 and permission of instructor. Three credits.
- 333 Art Since 1945** *Fall*
A slide/lecture survey of contemporary painting and sculpture, with an emphasis on historical perspective and current issues which shape today's art world and provide concepts for the future.
Three credits.
- 339 Art Methods for the Secondary Teacher** *Not offered in 1992-93*
For Art majors interested in teaching Art at the secondary level. The primary objective is the knowledge and understanding of the theory and methods of this teaching. Lab fee \$25.
Prerequisites: Art 203 and 205. Three credits.
- 401 Sculpture: Modeling/Casting** *Fall*
The study and practice of sculpture as a creative expression using traditional and contemporary approaches. A variety of techniques will be explored with an emphasis on modeling, mould making, and casting. Studio fee \$25.
Prerequisite: Art 205 or permission of instructor. Three credits.
- 403 Sculpture: Carving/Construction** *Spring*
The study and practice of sculpture as a creative expression. A variety of carving and construction techniques will be examined. Slide/lectures will be used to illustrate traditional and contemporary approaches. Studio fee \$25.
Prerequisite: Art 205 or permission of instructor. Three credits.
- 405 Printmaking: Relief Printing** *Fall*
A studio course which explores the relief method of printmaking with an investigation of various techniques as they relate to the creative possibilities of the medium.

Traditional and contemporary approaches will be examined, with an emphasis on woodblock printing. Studio fee \$30.

Prerequisite: Art 205 or permission of instructor. Three credits.

407 Printmaking: Etching

Spring

A studio course which explores the relief method of printmaking with an investigation of various techniques as they relate to the creative possibilities of the medium. The emphasis will be on etching using a variety of intaglio techniques such as mono print, drypoint, and aquatint. Studio fee \$30.

Prerequisite: Art 205 or permission of instructor. Three credits.

411 Art Tutorial in Sculpture

Spring

Individually planned studio program. Student needs and interests will determine the medium employed. Studio fee \$25.

Prerequisites: Art 401, 403, and permission of instructor. Four credits.

415 Art Tutorial in Painting

Fall

Individually planned studio program. Student needs and interests will determine the medium employed. Studio fee \$25.

Prerequisites: Art 305, 309, 311 and permission of instructor. Four credits.

417 Serigraphy

Not offered in 1991-92

Familiarizes the student with the processes and materials available for the exploration of silk screen printing. Students will make their own screens and work in various techniques. Studio fee \$30.

Open only to Fine Arts majors with an Art emphasis. Prerequisites: Art 405 and 407 and permission of instructor. Three credits.

419 Advanced Western Calligraphy

Spring

Illuminated manuscript and gold leafing. Studio fee \$25.

Prerequisites: Art 313 and permission of instructor. Three credits

431 Life Drawing

Spring

Three-hour drawing lab with live model as subject, using a variety of drawing media, ink and wash, charcoal, watercolor and more. Developing an understanding of basic human anatomy and looking at examples of style and technique used throughout the history of figure drawing. There will be an emphasis on perceptual accuracy and personal interpretation as well. Studio fee \$40.

Three credits.

COMMUNICATION

205 Principles of Speech

Fall and Spring

Seeks to enhance abilities in speaking, writing, and listening, to develop skills in critical observation and objective feedback, and to provide experience, both formally and informally, in expository, humorous and persuasive speeches.

Three credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.

**207 Advanced Speech: Argumentation and
Persuasion**

Spring

Oral and written expression of critical thinking: developing and organizing ideas, researching and evaluating evidence, observing logical consistency, expressing oneself clearly and persuasively.

Prerequisite: Communications 205 or permission of instructor. Three credits.
COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.

310 Internships in Communication

Fall and Spring

Vermont Educational Television offers a limited number of internships in the areas of graphic arts, production, public relations and development. Internships at other area stations are sometimes available. Only students approved by Saint Michael's College and the television directors will be accepted. Not recommended for lower-division students. Those interested should contact the Chair of the Fine Arts Department.

Prerequisite: Permission of Fine Arts Chair. Three credits.

317 Training of the Speaking Voice

Spring

A study of the structure of the vocal mechanism, techniques of projection and proper production of the spoken sound.

Prerequisite: permission of instructor. Three credits.

DANCE

101 Ballet Barre I

Fall

A beginner's course of basic ballet exercises. Classical music.

One credit. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.

102 Ballet II

Spring

Further instruction and practice in the basic techniques of body control.

Prerequisite: Dance 101 or permission of instructor. One credit. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.

105 Jazz I

Not Offered in 1992-93

Center work for isolation, placement, and stretch exercises. Jazz combinations will be taught to contemporary, classical and popular jazz music.

One credit. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.

107 Jazz II

Not Offered in 1992-93

Jazz technique, rhythms and isolations. Jazz combinations will be taught. Student choreography will be stressed.

One credit. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.

111 Modern Dance I

Fall

How to give aesthetic shape to personal movement expression. Includes a basic generic warm-up, dance and theatre games, improvisations and choreographic studies, both with and without music. Not a technique class.

One credit. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.

112 Modern Dance II

Spring

A continuation of Dance 111.

One credit. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.

201 Ballet III

Not Offered in 1992-93

Ballet class for non-beginners. Barre and center. No pointe.

Prerequisite: Dance 101 and 102, or equivalent. One credit. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.

397 Dance Ensemble

Not offered in 1992-93

A dance group which performs jazz, modern and story dance.

Limited to twelve students. Prerequisites: Audition and permission of instructor. One credit each semester. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.

DRAMA

200 Theatre Laboratory I

Fall and Spring

A semester-long theatre laboratory focusing on the mainstage production and selected student productions, involving study of the plays followed by active participation in one technical area selected from costuming, stage lighting, properties, set construction, sound design, or, by special arrangement, design and execution of stage costumes, scenery or stage properties.

Prerequisites: Drama 201 and permission of instructor. Three credits.

201 Introduction to the Theatre

Fall and Spring

Explores the theatrical process, the history and the literature of the theatre, while developing skills that enable the student to more fully comprehend and appreciate the rich function performing arts serve in everyday life.

Three credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

203 Oral Interpretation of Literature

Spring

An introduction to the art of communicating to an audience a work of literary art in its intellectual, emotional, and aesthetic entirety.

Three credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

- 209 Fundamentals of Play Production Spring**
 The fundamentals of bringing a play to life: play selection, style of production, scenery design, lighting, execution of the design, and production planning. Particular emphasis is placed on technical aspects.
Three credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.
- 299 Performance I Fall and Spring**
 Allows students to earn course credit by participating in a significant role in the mainstage production for the semester, attending all rehearsals, performing as scheduled, and submitting all written research work as required.
Prerequisites: Permission of instructor. Registering for the course does not ensure being cast in the production. Three credits.
- 300 Theatre Laboratory II Fall and Spring**
 A continuation of Theatre Lab I, with more intensive involvement in technical theatre, using the current mainstage and student productions and focusing on one area of production different from the one chosen for Theatre Lab I.
Prerequisites: Drama 201 and permission of instructor. Three credits.
- 301 Chief Patterns of Western Drama I Fall**
 A survey of the history of drama from the Golden Age of Greece to the Renaissance. The relationships among authors, their plays, and conditions of production are emphasized.
Four credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.
- 302 Chief Patterns of Western Drama II Spring**
 A continuation of the history of drama from the Renaissance to the Advent of Realism.
Four credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.
- 303 Contemporary Drama Spring**
 An investigation into the most important and influential playwrights from the beginning of Realism to the present.
Four credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.
- 307 American Theatre Not offered in 1992-93**
 The American heritage in drama and subliterary forms, such as vaudeville, from the Revolution to the present.
Three credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.
- 309 Principles of Play Direction Fall**
 Explores the technical, visual, aural and analytical skills involved in the direction of plays. Students obtain experience in play analysis, stage movement, ground-planning, casting, rehearsing, and performance. In addition, students gain preliminary knowledge of the history of play direction.
Prerequisites: Drama 201 and 209 and permission of instructor. Four credits.

311 Principles of Acting I

Fall

The theory and practice of acting techniques, using the acting style and literature of modern and contemporary realism. The techniques focus on understanding dramatic action in terms of character, and on the organic use of the voice and body.

Prerequisites: Drama 201 and permission of instructor. Four credits.

321 Playwriting

Spring

An introductory workshop designed to give practical experience in writing and in critical analysis of playscripts. Starting with writing exercises, students will develop one finished script of ten minutes in length and another work in progress towards a 20-40 minute script. All scripts will have a reading in class, and will be subject to discussion, leading to revision.

Four credits.

**331 Principles of
Theatrical Design**

Not offered in 1992-93

A study of the theories and practices of design for the stage. The creative process and methods of communicating the design to the director and other members of the production staff will be learned.

Prerequisite: Drama 209. Three credits.

**341 Advanced Theatrical
Production**

Fall

An in-depth examination of theories and practices in creating the art of the theatre. Areas of study will include sound, multi-media, metals, plastics, and state-of-the-art technology with their applications.

Prerequisites: Drama 209 and permission of instructor. Three credits.

399 Performance II

Fall and Spring

Allows students a second opportunity to earn credit by participating in a significant role in the mainstage production, attending all rehearsals, performing as scheduled, and submitting all written research work as required.

Prerequisites: Permission of instructor. Registering for the course does not ensure being cast in the production. Three credits.

400 Theatre Laboratory III

Fall and Spring

A study of the current mainstage production and selected student productions, with a more active involvement in areas of production or theory different from the ones chosen for Theatre Laboratory I and II.

Prerequisites: Drama 200 and 300 and permission of instructor. Three credits.

401 Advanced Directing

Spring

Further study of the processes that comprise play direction, culminating in the direction of two one-act plays. Comprehensive study in directorial history and theory.

Prerequisites: Drama 309 and permission of instructor. Four credits.

403 Principles of Acting II*Spring*

The theory and practice of acting styles, with special emphasis on Realism, Greek Drama, Shakespeare, Farce, the Comedy of Manners, and contemporary techniques of auditioning by means of the monologue.

Prerequisites: Drama 201 and 311 and permission of instructor. Four credits.

MUSIC**101 Rudiments of Music***Fall*

Basic musicianship, including sight singing, solfege, melodic, rhythmic and interval dictation. Major and minor keys and scales.

Incoming Music and Music Education students in Fine Arts must take a placement examination to determine if Rudiments of Music may be waived. Three credits.

201 Theory I*Fall*

Primary tonal materials, triads and seventh chords, procedures for part writing.

Prerequisite: Music 101 or permission of instructor. Three credits.

202 Sight Singing and Dictation*Not offered in 1992-93*

Sight singing and dictation for music/music education majors.

One credit.

203 Theory II*Spring*

Continued study of tonal harmony, including secondary chords, inversions, supertonic and subdominant seventh chords.

Prerequisite: Music 201. Three credits.

307 History of Music*Not Offered in 1992-93*

A survey of music against the background of medieval and renaissance history and culture.

Four credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

309 History of Music, 1600-1750*Not Offered in 1992-93*

A history of musical style and performance of Baroque and preclassical music.

Four credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

311 History of Music, 1750-1900*Fall*

The music of the Classical and Romantic periods.

Four credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

313 History of Music, From 1900*Spring*

A survey of music from nineteenth-century Impressionism to modern avant-garde compositions.

Four credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

317 **Theory III: Harmony**

Fall

Dominant and secondary sevenths with their inversions; the diminished seventh; augmented chords; harmonization of melodies; figured bass modulation; analysis.

Prerequisite: Music 203. Three credits.

319 Theory IV: Harmony

Spring

More sophisticated management of the voices; chords of the ninth, eleventh, and thirteenth; the augmented, Neapolitan, French, and German sixth; twelve-tone method.

Prerequisite: Music 317. Three credits.

321 American Musical Theatre

Not offered in 1992-93

The distinctive American character of the Broadway musical, cinema-musical, opera and dramatic theatre. When possible, the class participates in the production of a musical.

Three credits. FINE ARTS AND INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

323 American Music I

Not offered in 1992-93

A survey of the development of American music from the Colonial period to the present, considering the influences of European practices and American aesthetic thought.

Three credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

325 American Music II — The History of Jazz

Spring

The history of the music of Black Americans from point of departure in Africa to present day avant-garde jazz. The influence of jazz on American music.

Four credits. FINE ARTS LIBERAL STUDIES REQUIREMENT.

331 Choral Conducting

Fall

Baton technique, vocal production, choral literature; an opportunity to conduct college choral groups.

Prerequisite: written permission of instructor. Participation in chorale (Music 398) required. Three credits.

343 Music Education I

Not offered in 1992-93

A survey of the history and development of music education from the middle ages through current practice in American education. The evolution of the music curriculum in the public schools in the twentieth century.

Three credits.

351 Principles of Playing
Woodwind Instruments

Fall

Embouchure formation, fingerings, basic musicianship.

Prerequisite: permission of instructor. One credit.

- 353 Principles of Playing Brass and Percussion Instruments** *Fall*
 Embouchure formation, basic musicianship.
Prerequisite: permission of instructor. One credit.
- 355 Principles of Playing String Instruments** *Fall*
 Basic bowing, finger patterns, positions.
One credit.
- 357 Vocal Methods** *Not offered in 1992-93*
 Vocal techniques, choral methods, literature, methodology for high school programs.
 Survey of choral music. Mandatory participation in Chorale.
Prerequisite: permission of instructor. Three credits.
- 359 Piano Class** *Fall*
 Basic introduction to the piano, in a class situation. Introductory elements of music, scales, basic chords. Limited to eight students.
Prerequisite: permission of instructor. One credit.
- 360 Theory V: Orchestration** *Spring*
 The art of instrumentation; clefs, transposition, range, timbre. Arranging for ensembles and school groups. Analysis of composers and arrangers.
Three credits.
- 397 Jazz Ensemble** *Two semesters*
 A performing stage band. The big band style of jazz performance.
Open to qualified musicians with permission of instructor. One credit per year. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.
- 398 Chorale** *Two semesters*
 The study and performance of choral literature for mixed voices in a variety of styles. Major choral works. Attendance at rehearsals mandatory.
One credit per year. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.
- 399 Concert Winds** *Two semesters*
 A performing instrumental group open to all students who play a wind instrument.
One credit per year. FINE ARTS LIBERAL STUDIES REQUIREMENT when three credits are earned.
- 407 Music Education II** *Not offered in 1992-93*
 A practical course in the development of the public school music curriculum, elementary through secondary.
Open only to music education majors or those with written permission of instructor. Three credits.

421 The Cooperating Artist Program

Enables a qualified student to study with a well-known artist in the area. Required of all Fine Arts Music and Music Education majors. Private lessons are currently available for violin, viola, double bass, cello, piano, clarinet, flute, guitar, trumpet, oboe, bassoon, French horn, trombone, tympani and advanced voice work.

Prerequisite: permission of artist. One credit per semester may be arranged with permission of the Fine Arts Chair and payment of the required additional fee.

FINE ARTS-SEMINAR

410 Senior Seminar

Fall

A practical implementation of the unifying elements and common bonds of the arts. Individual projects in art, drama, or music, according to the interests of the student.

Four credits.

INTERDISCIPLINARY COURSES:

Physics 103 Acoustical Foundations of Music (see Physics)

GEOGRAPHY PROGRAM

DR. RICHARD KUJAWA

Geography involves the description and interpretation of the variable character of the earth's surface. It crosses traditional disciplinary lines, emphasizing relationships between humans and the environment. The Geography Program offers courses at the introductory and intermediate levels that broaden the social and cultural horizons of students.

Courses may be either systematic (economic, political, and urban geography) or regional (world regional geography). Majors in the social sciences and other fields should especially consider taking the systematic geography courses that complement other aspects of their studies.

101 Introduction to Human Geography

Spring

An overview of the range of human geography familiarizing students with broad, world-scale geographical patterns. Topics include population, migration, social customs, political issues, economic development, agriculture, and urban development. Using a variety of perspectives and analyses, students will examine these topics through a geographer's eye, focusing on spatial relationships, the cultural landscape, and regional expressions.

Four credits. SOCIAL SCIENCE AND GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

103 World Regional Geography*Fall*

A regional approach to the study of human cultures in diverse physical settings. Regional description and analysis are pursued at many different scales, from the global to the local. Emphasis is on the historical geographical development of various traditional regions of the world and on selected contemporary geographical issues in those places.

Four credits. SOCIAL SCIENCE AND GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

201 Urban Geography*Spring*

An introduction to the development of urban systems and to a variety of contemporary urban problems. Topics include perceptions and images of urban areas; approaches to the study of urbanization and the spatial structure of urban systems; the evolution of residential and non-residential land-use patterns; investment and disinvestment in central cities; and the role of politics and planning in urban development. Emphasis is on the processes characteristic of U.S. and Canadian cities.

Three credits.

205 Political Geography*Not Offered in 1992-93*

A survey of the theories and themes of political geography past and present. Topics include environmental political theories, geopolitics, territoriality, nationalism and the state, the Law of the Sea, locational conflict, electoral geography, locality studies, and urban politics. This course covers local political-geographic conflict as well as global issues.

Three credits.

207 Economic Geography*Not Offered in 1992-93*

A global perspective on the central economic issues facing human societies. This course covers conflicting arguments and theories for comprehending a world in rapid transition, ranging from spatial applications of neoclassical economics to political economy perspectives on underdevelopment. Topics include population dynamics and policy; pollution and resource depletion; food and famine; transportation; patterns of production and land use; economic justice; social and economic development; and multinational and international commerce.

Three credits.

DEPARTMENT OF HISTORY AND AMERICAN STUDIES

DR. GEORGE DAMERON, *INTERIM CHAIR*; ANDERSEN, ARREOLA, LEHUU, NICOSIA, SLAYBAUGH, WANG

Remembering the past is a fundamental human activity. The discipline of history is that field of inquiry which seeks to understand and recapture the human past by the application of critical methods of investigation and analysis. Because the subject matter of history is so broadly rich and diverse, the discipline must attempt to order and unify the past so that the student may not only see what happened but also develop an informed perception of the significance of what happened. In its task of investigating the human past, the discipline of history must avail itself of other

branches of learning, especially the social sciences, religious studies, philosophy and literature. History, therefore, is one of the most important of the liberal arts because it utilizes and integrates both the arts and the sciences in order to give meaning to past human experience.

To accomplish its goal of enlarging student awareness and perception, the Department of History has set for itself the following objectives: to impart to the student a general knowledge of the rich variety of human activity in the past; to acquaint the student with specialized areas in western and non-western history; to promote the student's understanding of, and appreciation for, the present as a complex evolutionary product of the past; to strengthen the student's critical faculties to synthesize and analyze so that an informed perception of the meaning of the past might result; finally, to help the student develop the literary and rhetorical skills necessary for intelligent self-expression through discussions, the preparation of historical papers and oral presentations.

REQUIRED FOR THE HISTORY MAJOR:

HI100 Introduction to History (4 credits)

HI410 Senior Seminar/Thesis (4 credits)

Intro/Survey Courses (no more than two from each category; total of 15 credits):

U.S.

HI201 U. S. History to 1865 (3 credits)

HI203 U. S. History Since 1865 (3 credits)

European

HI205 Early Modern Europe (3 credits)

HI207 Modern Europe (3 credits)

HI209 Medieval Europe I (3 credits)

HI211 Medieval Europe II (3 credits)

Non-Western

HI121 Modern Middle East (3 credits)

HI141 Traditional East Asia (3 credits)

HI143 Modern East Asia (3 credits)

HI161 Early Latin America (3 credits)

HI163 Modern Latin America (3 credits)

AND CHOOSE History electives (at least three must be upper-division/4-credit courses; total of 15/16 credits).

For a major, students must establish proficiency in a classical or modern language. They may do so by passing the language course(s) at the intermediate level in the Classics or Modern Language Departments, or by demonstrating equivalent knowledge through examination.

REQUIRED FOR THE HISTORY MINOR:

HI100 Introduction to History (4 credits)

AND CHOOSE any two Introductory/survey courses (6 credits total), and three additional electives in History, at least two of which are upper level and 4 credits each.

100 An Introduction to History*Fall and Spring*

Examines fundamental historical research methods and acquaints the student with concrete examples of historians applying their craft.

Required of all majors and minors in History. Four credits.

**121 The Modern Middle East:
An Introduction***Not offered in 1992-93*

A survey of the history of the Middle East from the rise of Islam in the 7th to the 20th century, with particular emphasis on the 19th and 20th centuries.

Three credits. HISTORICAL OR GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

141 Traditional East Asia*Spring*

A survey of the history and culture of China and Japan from pre-history to the 18th century. The main theme of this course will be diversity and continuity in East Asian societies.

Three credits. HISTORICAL OR GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

143 Modern East Asia*Fall*

A survey of social, political and cultural changes in China and Japan from the 18th century to the present. This course will compare the different paths of development the two nations have taken during the past century.

Three credits. HISTORICAL OR GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

161 Early Latin America*Fall*

A survey of Latin American history from the emergence of pre-Columbian societies to independence, with emphasis on the effects of "empire" on pre-Columbian and Latin American societies and on Indian-European relations after 1492.

Three credits. HISTORICAL LIBERAL STUDIES REQUIREMENT.

163 Modern Latin America*Spring*

A survey of Latin America since 1810, with emphasis on state-making and national consolidation in the 19th century, its impact on society, culture and economics, and the origins and course of major revolutionary and reform movements of the 20th century.

Three credits. HISTORICAL LIBERAL STUDIES REQUIREMENT.

201 U.S. History to 1865*Fall*

A survey of American history from the beginnings of colonization through the Civil War.

Three credits. HISTORICAL LIBERAL STUDIES REQUIREMENT.

203 U.S. History Since 1865*Fall and Spring*

A survey of American history from the end of the Civil War to the present.

Three credits. HISTORICAL LIBERAL STUDIES REQUIREMENT.

205 Early Modern Europe

Fall

A survey of the political, economic, social and intellectual history of Europe from the Renaissance to the eve of the French Revolution.

Three credits. HISTORICAL LIBERAL STUDIES REQUIREMENT.

207 Modern Europe

Fall and Spring

A survey of the political, economic, social and intellectual history of Europe from the French Revolution to the Cold War.

Three credits. HISTORICAL LIBERAL STUDIES REQUIREMENT.

**209 Western Europe in the
Middle Ages, 400-1050**

Fall

A survey of the social, economic, political and cultural history of Europe from the decline of the Roman Empire to the Investiture Controversy.

Three credits. HISTORICAL LIBERAL STUDIES REQUIREMENT.

**211 Western Europe in the
Middle Ages, 1050-1400**

Spring

A survey of the social, economic, political and cultural history of Europe from the Investiture Controversy to the Black Death.

Three credits. HISTORICAL LIBERAL STUDIES REQUIREMENT.

215 Women in American Society

Spring

An introduction to the major themes and experiences of American women from the colonial period to the present.

Three credits.

218 History of Modern Ireland

Spring

A survey of Irish history from the 16th to the 20th century. Topics include the Tudor revolutions, English colonialism and penal laws, Irish republicanism and home rule movements, the partition of Ireland, creation of the Irish republic, and the question of the North.

Three credits. HISTORICAL LIBERAL STUDIES REQUIREMENT.

251 The Black Experience in America

Spring

Designed to provide perspective on the experience of African-Americans in American life. Emphasis is given to West African culture and to slavery, which shaped the socio-economic and psychological parameters of the African-American experience. Other issues that dramatize the Black experience are also explored.

Three credits.

301 History of Greece
(See Classics 301)

Fall

The rise and development of Hellenic culture form the core of consideration for a study of archaeological, political and social aspects of the world of ancient Greece. Readings from inscriptional evidence and from Herodotus illustrate the growth of Hellas up to the end of the Persian Wars.

Prerequisite: Humanities 101 or permission of instructor. Four credits.
HISTORICAL LIBERAL STUDIES REQUIREMENT.

303 History of Greece: From Pericles to Alexander
(See Classics 303)

Not offered in 1992-93

Considers the multiplicity of ideas, events, individuals, and attitudes of the Hellenic world from the fifth century to the death of Alexander the Great. Thucydides leads the way; the orators will offer vibrant witness, and Alexander's legacy must be examined.

Prerequisite: History/Classics 301 or Humanities 101 or permission of the instructor. Three credits.
HISTORICAL LIBERAL STUDIES REQUIREMENT.

305 History of Rome: The Republic
(See Classics 305)

Not offered in 1992-93

From the archaeological background to early Rome, the regal period, and the political and social development of the republic to the Augustan settlement.

Prerequisite: Humanities 101 or permission of the instructor. Three credits.
HISTORICAL LIBERAL STUDIES REQUIREMENT.

307 History of Rome: The Empire
(See Classics 307)

Not offered in 1992-93

Considers the Roman Empire from the time of the settlement of Augustus in the first century B.C. to the fall of the empire in the West by the fifth century A.D. Major emphasis will be given to analyzing the reasons for Rome's successes, the eventual causes of decline and the role played by Christianity in Roman imperial history.

Prerequisite: History/Classics 305 or Humanities 101 or permission of the instructor. Three credits.
HISTORICAL LIBERAL STUDIES REQUIREMENT.

309 The Early Middle Ages

Not offered in 1992-93

A topical analysis of the complex phenomena which shaped the history of Western Europe from the period of the Later Roman Empire to the tenth century.

Prerequisite: History 209 or Humanities 103 or permission of the instructor. Three credits.

311 The High Middle Ages

Not offered in 1992-93

A topical analysis of the sociological, cultural and intellectual history of Western Europe during the centuries of medieval greatness from 1050 to 1300 A.D.

Prerequisite: History 211 or Humanities 103 or permission of the instructor. Three credits.

317 History of European Witchcraft *Not offered in 1992-93*

An analysis of the historical phenomenon of European witchcraft. Special emphasis will be given to the important light that the history of witchcraft sheds upon European civilization from classical antiquity to early modern times.

Prerequisite: any medieval or early modern History or Humanities survey course, or permission of the instructor. Three credits.

323 Society and Culture in Early America *Not offered in 1992-93*

An examination of the social and cultural history of colonial and revolutionary America.

Prerequisite: History 201 permission of the instructor. Three credits.

325 Antebellum America 1830-1860 *Spring*

A topical examination of the reform movement in American society before the Civil War. This course emphasizes the dedication of American men and women to the moral regeneration of their society, as well as the divisions and polarities in the nation.

Prerequisite: History 201 or permission of the instructor. Four credits.

331 American Catholicism
(See Religious Studies 331) *Not offered in 1992-93*

A history of the Roman Catholic Community in the United States from its beginnings in colonial America to the present. Both primary and secondary sources will be read. Focus will be on those events and movements which have shaped the present situation of the Church.

Prerequisites: a 100 and a 200 level Religious Studies course. Three credits.

335 China in the 20th Century *Fall*

An analysis of recent Chinese history from the Revolution of 1911 to the post-Mao reforms in the late 1970s. This course examines the interplay of imperialism, nationalism and socialism which shaped China's experience in the modern world.

Prerequisite: History 143 or permission of the instructor. Four credits.

337 Japan and the Modern World *Spring*

Analyzes the history of modern Japan from the Meiji Restoration to the post-World War II economic miracle. Emphasis will center on Japan's interaction with the international environment, tracing her experience from isolation to aggression, and to peaceful expansion.

Prerequisite: History 143 or permission of the instructor. Four credits.

339 East Asia and the West:
Cultures in Contact *Fall*

From Marco Polo to Toyota. A topical analysis of the history of cultural, economic and diplomatic relations between East Asia and the Western world, with an emphasis on the experience from the 16th to the 20th century.

Prerequisite: History 141 or History 143 or permission of instructor. Four credits.

**341 Economic and Social History of
Medieval Europe, 400-1400
(See Economics 341)**

Fall

An exploration of the major issues in European economic and social history from the decline of the Roman Empire through the consequences of the 14th century crisis. Topics include the decline of slavery, the emergence of a European peasantry, the role of women in the economy, peasant rebellions, and the Black Death.

Four credits.

**353 Presidential Elections
(see Political Science 353)**

Fall

An examination of presidential elections. Topics include the nomination and general election "rules of the game"; campaign finance and political action committees; advertising and news coverage; managing candidates and campaigns. (To be taught only during Presidential election years with an instructor from the Political Science Department).

Four credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

361 America and the Cold War

Not offered in 1992-93

Examines America's struggle against communism, with particular emphasis on the post-World War II confrontation with the Soviet Union and its impact on U.S. politics and culture.

Prerequisite: History 203 or permission of the instructor. Three credits.

395 Europe in the 19th Century

Not offered in 1992-93

A topical approach to the political, economic and social transformation of Europe during the one hundred years between the end of the Napoleonic wars and the outbreak of the First World War.

Prerequisite: History 207 or Humanities 301 or permission of the instructor. Four credits.

397 Recent Europe

Not offered in 1992-93

A topical approach to the recent history of Europe from the First World War to the present, with emphasis on the period since 1945.

Prerequisite: History 207 or Humanities 303 or permission of the instructor. Four credits.

399 Directed Research in History

Fall or Spring

Qualified juniors and seniors may request to work in directed research with faculty. Requirements may include bibliographic materials, oral reports and/or written research papers, and additional research tasks as deemed necessary for the successful completion of the proposal.

Three or four credits.

401 Late Medieval - Renaissance Europe Not offered in 1992-93

A topical analysis of the 14th and 15th centuries, this course explores the era's remarkable contrasts, focusing on the many crises and calamities of northern Europe juxtaposed to the cultural revival of the Italian Renaissance.

Prerequisite: Either History 205, History 211, Humanities 103, Humanities 201 or permission of the instructor. Four credits.

405 The Reformation Spring

An analysis of the religious ideology, conflict and crisis of 16th-century Europe. Special emphasis will be given to the intellectual and religious foundations of Protestantism and the eventual clash with Catholicism during the Counter-Reformation.

Prerequisite: History 205 or Humanities 201 or permission of the instructor. Four credits.

410 Senior Seminar Fall and Spring

Requires students to prepare a senior thesis in a selected area of history, under close supervision of a faculty member in the Department of History and American Studies.

Required of all History majors; American Studies majors must take either History 410 or English 410. Four credits.

415 Modern Mexico Fall

A detailed analysis of the impact of the Mexican revolution on society and culture, with emphasis on the evolution of cultural and economic nationalism between 1910 and 1950, and the political and economic crisis of the 1980s and 1990s.

Prerequisite: History 163 or permission of the instructor. Four credits.

**421 The United States in
the 20th Century I Not offered in 1992-93**

A topical analysis of American history from the 1890s to World War II, with an emphasis on the emergence of the nation as a modern industrial power with global interests.

Prerequisite: History 203 or permission of the instructor. Three credits.

**423 The United States in
the 20th Century II Not offered in 1992-93**

A topical analysis of American history from World War II to the present, with an emphasis on the problems of seeking equality and opportunity at home while promoting American interests and values abroad.

Prerequisite: History 203 or permission of the instructor. Three credits.

**431 The Civil War and
Reconstruction Not offered in 1992-93**

A detailed examination of the Civil War and its aftermath, with emphasis on the economic, military and political aspects of the period.

Prerequisite: History 201 or History 203 or permission of the instructor. Three credits.

**455 The Origins of the Arab-Israeli
Conflict**

Not offered in 1992-93

Examines the history of the Arab-Israeli conflict from its origins in the 19th century to the emergence of the state of Israel in 1948.

Prerequisite: History 121 or permission of the instructor. Three credits.

**461 Society and Culture in
Medieval Italy, 1200-1400**

Spring

An exploration of the relationship between culture (literature and the visual arts) and social, economic, and political developments in the age of the communes.

Four credits.

**465 Topics in Modern Latin
American History**

Spring

A topical examination of issues such as the Cuban and Nicaraguan revolutions, military dictatorship in Chile and Argentina, Hispanic immigration to the United States, and the human condition in Latin America today.

Prerequisite: History 163 or permission of the instructor. Four credits.

485 Germany in the 19th Century

Not offered in 1992-93

An examination of major topics in German history from the era of reform in Prussia to the First World War, with emphasis on Bismarck and the Second Reich.

Prerequisite: History 207 or History 395 or permission of the instructor. Three credits.

487 Germany Under the Third Reich

Not offered in 1992-93

An examination of German history during the Weimar Republic and the Third Reich, from 1918 to 1945, with an emphasis on National Socialism, Hitler and the period after 1933.

Prerequisite: History 207 or History 397 or permission of the instructor. Three credits.

AMERICAN STUDIES PROGRAM

The American Studies Program is an interdepartmental major under the supervision of the Department of History. Students in this major must complete 38 credit hours as explained below. Its purpose is to allow a student to investigate the factors — historical, social, intellectual, political, and economic — which have shaped American civilization.

REQUIRED FOR THE AMERICAN STUDIES MAJOR:

HI201	U. S. History to 1865 (3 credits)
HI203	U. S. History Since 1865 (3 credits)
EN251	American Literature I (3 credits)
EN253	American Literature II(3 credits)

- HI410 Senior Seminar in U. S. History (4 credits) **OR**
 EN410 Senior Seminar in American Literature (4 credits)
 AM310 American Cultural and Intellectual History
 in the 19th Century (4 credits)
 AM410 American Cultural and Intellectual History
 in the 20th Century (4 credits)

AND CHOOSE 14-16 additional credits in American Studies, 8 of which must be from 4-credit courses, not to exceed a total of 40 credits.

LANGUAGE REQUIREMENT -- Competency at the Intermediate level in a Modern Language.

**310 American Cultural and Intellectual History
 in the 19th Century**

Fall

Examines the transformation of American culture and intellectual life from the Early Republic to the Gilded Age. Special emphasis is given to the historical context of ideas, concepts and values in 19th-century American society.

Prerequisite: History 201 or English 251 or permission of the Instructor. Four credits.

**410 American Cultural and Intellectual History
 in the 20th Century**

Spring

Examines the impact of several major historical developments on the cultural and intellectual life of 20th-century Americans. These include the rise of an urban, professional middle class; the revolution in technology; the struggle against totalitarianism; the benefits and "perils of prosperity"; equal rights movements for racial and ethnic minorities and women; and the emergence of a separate sphere for youth.

Prerequisite: History 203 or English 253 or permission of the Instructor. Four credits.

The electives in the American Studies Program will be selected from the following list. Other elective courses may be substituted with the approval of the department. At least two electives must be selected from departments other than History and English.

- | | | |
|-------------------|-------|---|
| History | HI215 | Women in American Society (3 credits) |
| | HI251 | The Black Experience in America (3 credits) |
| | HI323 | Society/Culture in Early America (4 credits) |
| | HI325 | Antebellum America (4 credits) |
| | HI421 | The U.S. in the 20th Century I (4 credits) |
| | HI423 | The U.S. in the 20th Century II (4 credits) |
| English | HI431 | The Civil War and Reconstruction (4 credits) |
| | EN311 | American Renaissance (4 credits) |
| | EN313 | American Naturalism (4 credits) |
| | EN393 | Major American Writers (4 credits) |
| Drama | EN395 | Major American Writers (4 credits) |
| | DR307 | American Theater (3 credits) |
| Economics | EC313 | Economic History of the U.S. (4 credits) |
| Geography | GG201 | Urban Geography (3 credits) |
| Music | MU323 | American Music (3 credits) |
| | MU325 | American Music II/History of Jazz (4 credits) |
| Philosophy | PH323 | American Philosophy (4 credits) |

Political**Science**

PO201 American National Politics (3 or 4 credits)

PO301 Constitutional Law (4 credits)

PO403 American Political Thought (3 credits)

Religious**Studies**RS331 American Catholicism (3 credits) [*cross-listed as HI331*]**Sociology**

SO407 American Society (4 credits)

HUMANITIES PROGRAM

DR. JAMES P. CONLEY, *COORDINATOR*; BEGLEY, MERRIMAN.

Interdisciplinary in approach, the Humanities Program at Saint Michael's College is designed to acquaint the student (of whatever specialization) with the principal issues and trends that have shaped the development of western thought and culture from antiquity to the twentieth century. Drawing on such diverse subjects as history, literature, philosophy, political economy, and fine arts, each course in the program focuses on an intensive study of the most important texts (the "Great Books") or works of art in a given era. The backbone of the program is the tripartite sequence, "Thought and Culture I, II, and III," which the student should follow sequentially (Humanities 101-103, 201-203, 301-303). Aside from the three-part survey, the program offers courses that employ an interdisciplinary, textually-based approach to examine in depth briefer periods of time. Since the program is designed to assist the student to think and write clearly and critically, each course includes a writing component (outside of examinations). The primary objectives of the Humanities Program are twofold: to provide the student with an appreciation for the evolutionary development of the western cultural and intellectual tradition, and, more generally, to impart a sense of what Renaissance humanists referred to as the *scientia rerum* — the broad vision of how specialized or technical knowledge can be integrated into a liberalizing and humanistic whole.

THOUGHT AND CULTURE I**101 Classical Civilization***Fall*

Explores the fundamental characteristics of our classical heritage through key works in literature, philosophy, history, and the visual arts. Readings may include *Iliad* or *Odyssey*, Sophocles' *Oedipus Rex* or *Antigone*, Thucydides' *The Peloponnesian War*, Plato's *Dialogues*, selected works of Aristotle, and Vergil's *Aeneid*.

Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

103 Medieval Civilization*Spring*

Seeks to define the unique contributions of the Christian centuries in literature, philosophy, and the arts. The synthesis of Greco-Roman culture and Christianity is examined through such works as St. Augustine's *Confessions*, Medieval epic (*Song of Roland*, *Beowulf*, or *Nibelungenlied*), Medieval romance, Scholasticism (writings of Abelard, Bonaventure or Aquinas) and Dante's *Divine Comedy*.

Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

THOUGHT AND CULTURE II

201 Renaissance — Reformation

Fall

Continues the survey of Western development from the beginning of the Renaissance through the sixteenth century. Major emphasis is placed on the transition in European culture, the effects of exploration, philosophy, science and religious thought. Texts include works of Machiavelli, Christian humanism (Erasmus and/or More), Catholic and Protestant thinkers (Luther, Ignatius Loyola, Calvin, Montaigne, and/or Milton), and Shakespeare.

Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

203 Enlightenment — Revolution

Spring

Covers the years from the 17th century to 1815. The major areas of consideration are: society after the Reformation, absolutism and the empires, the Industrial and French Revolutions, the culture of the age, the causes and effects of the Enlightenment through the Napoleonic Era. Readings include works of Pascal, The New Science (Bacon, Galileo, Descartes, Locke, and/or Newton), and selections from the area of society and politics (Hobbes, Moliere, Locke, Pope, Voltaire, and/or Rousseau).

Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

THOUGHT AND CULTURE III

301 The Nineteenth Century

Fall

A study of the political, social, religious, philosophical, and economic conditions of the Western World of the nineteenth century through literature and the visual arts. Topics include the politics of the Restoration, the Revolutions' effects on world affairs, and the culture of the times. Readings may include some of the works of Dickens, Hugo, Balzac, Dostoevsky, Turgenev, Darwin, Nietzsche, Marx, Chekhov, Hawthorne, Melville, and others.

Three credits.

303 The Twentieth Century

Spring

A cross-cultural, interdisciplinary course that draws on a wide variety of artistic manifestations in literature, art, music, and cinema.

Three credits.

311 The Culture of Japan

Not offered in 1992-93

Begins with a brief overview of Japanese geography and history. It then charts the course, the character, and the expressions of Japanese culture from the simple hunting and fishing communities of pre-history to the present day. Such cultural expressions as the Shinto creation myths, haiku poetry, ancient and modern literature, music, flower arrangement and the Tea Ceremony will be included. Japanese religions will also be studied, both as products of their cultural epochs and as shapers of the Japanese world-view and sense of beauty.

Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

321

**Disputations and Dialogues:
Renaissance and Reformation Studies**

Spring

Examines several of the central debates and conflicts of the fifteenth, sixteenth and seventeenth centuries. Discussion will focus on theological, philosophical, historical, literary, musical, and artistic works. The texts will include paintings and designs by Da Vinci, Machiavelli's *Prince*, More's *Utopia*, Luther's controversial exchange with Erasmus, Da Vinci's *Notebooks*, Shakespeare's *Richard III* and *Henry V*, Galileo's letters to the Grand Duchess Christina and to Ingoli, and compositions by Josquin and Monteverdi.

Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

347

Romanticism and Revolution

Spring

Considers the era of the French and Industrial Revolutions (1789-1848), when Europe underwent a dramatic social and cultural transformation. Drawing on the disciplines of history, literature, and fine arts, the course will focus on the response of intellectuals and artists to this "dual revolution." Authors may include Wordsworth, Byron, Goethe, Marx, and Stendhal.

Three credits.

INTERDISCIPLINARY COURSES

In keeping with the Liberal Studies curriculum, Saint Michael's College offers courses which cross over the normal boundaries of academic disciplines in either comparative studies or interdisciplinary work. In recent years, students have expressed interest in expanding their program to include formalized, interdisciplinary minors, and the College has set guidelines for such programs. As with all minors, interdisciplinary minors must satisfy the College requirements as follows:

- satisfactory completion of no more than 21 credits, and
- formal application to enter the minor through the Registrar's Office.

In addition, the interdisciplinary minor should have a central theme and some demonstrated coherence among the various courses offered in the minor.

One such minor, Gender Studies, coordinated by Dr. Carey Kaplan, is in its beginning stage, with an introductory course to be offered in Spring, 1993. The Gender Studies Program is designed to foster critical awareness of the reciprocal relationship between gender and culture, that is, between the ways in which culture conditions perceptions of femininity and masculinity, and how these perceptions contribute to the formation of culture. This two-fold process is studied as it has developed in Western and non-Western cultures, and in the socio-economic, ethnic, and racial groups that make up these societies. An interdisciplinary program, gender studies draws from fine arts, humanities, and the social and natural sciences. Issues pertaining to gender may encompass sexual identity, orientation, social practice, and historical change. Courses may consider how biology intersects with culture, how gender creates and maintains structures of power, and how gendered identity affects understanding of personhood. The purpose of such exploration is to expand curricular possibilities that enable students to comprehend more fully the complex factors that shape their experiences of themselves, others, and the world.

REQUIRED FOR THE GENDER STUDIES MINOR:

ID305 Gender Studies (4 credits)

AND CHOOSE four additional courses, no more than two from any one department, three of which must be at the 300-level or above.

IN ADDITION, a senior paper is required; it may be written as part of a Gender Studies course, or the student may, with the approval of the Gender Studies Coordinator, develop the paper working with a professor in any upper level course. This paper will not only be read by the supervising professor, but also by a faculty member in another discipline.

101 Freshman Studies

Fall

Freshman Studies, designed for the student's first semester in college, aims to explore a vision of what it means to be liberally educated, to introduce the diversity of disciplines within liberal studies, and to provide a common bond among those participating in this intellectual adventure. Through regular alternation of lectures and discussions, with the guidance of faculty members drawn from various departments, the course looks to cultivate the arts of listening, reading, speaking, and writing. The course examines both ancient and modern works in a variety of genres. To ensure individual attention, class size is limited to fifteen students in each discussion section.

Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

300 Social Justice in Global Perspective

Spring

An interdisciplinary exploration of contemporary social issues and social policies, using the perspectives of religion, philosophy and the social sciences. Global issues and their manifestation in American Society are studied, including hunger, poverty, the distribution of wealth and income among nations and within nations, human rights, war and peace. Students are encouraged to use their experiences in community or national service in carrying out course projects. The course focuses especially on problems being addressed by student volunteer efforts.

Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

301 Work, Liberal Arts and Purposeful Living

Fall

An interdepartmental, team-taught course that encourages students to examine their own educational and occupational expectations. Drawing on faculty from Sociology, Philosophy and Business, the course will consider various perceptions of work, education and purposeful living. We will analyze the American dream and then elaborate on the role of a college education and occupations in realizing this cultural ideal. We will also critically look at the tensions between the individual and his/her job, family, and that of the broader society.

Four credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

305 Gender Studies

Fall or Spring

Explores the significance and intelligibility of gender by examining, from an interdisciplinary and global perspective, how gender differentiation is experienced, understood, expressed, valued and lived out in cultures.

Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

Combines ethical theory and practice, exploring the effect of personal, corporate and social values on decision making. Students are involved in the examination of the basic reasoning skills developed in the study of ethical principles and invited to determine how those might be relevant to the business world in a variety of circumstances. A case study approach will be used throughout the course, with various forms of group work, writing exercises, and video supplements involved at various stages.

Three credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

THE CENTER FOR INTERNATIONAL PROGRAMS

ANNE M. WOOLFSON, DEAN; ARANI, CUMMINGS, DUFFY, EVANS, FOX, GAMACHE, LACHARITE, MAHNKE, STAPP, THAYER.

The Center for International Programs, long recognized for leadership in international education, maintains three academic programs — the Intensive English Program (IEP), the Undergraduate-Associate Program (UAP) and the Master's Program in Teaching English as a Second Language (MATESL) — as well as a number of grants and special short-term language/culture programs. In addition, a full range of academic counseling and support services is available to international students at Saint Michael's College. The Center and its programs were developed to reflect the Saint Michael's mission to promote international and inter-cultural understanding. The Center enrolls men and women from Asia, Latin America, Africa, Europe and the Middle East. During the past four decades over 12,000 international men and women, representing 40 or more countries, have lived and studied on the Saint Michael's campus.

The original Center program, the Program in English for International Students (ISP), was initiated in 1954 to provide international students with intensive study of the English language and American culture. As Saint Michael's reputation for international student education grew, several new programs were developed. The Master's program in teaching English as a Second Language (MATESL) was established in 1962 and the Undergraduate-Associate Program (UAP), which prepares students for long-term academic study, was provided in 1972.

The curriculum offered in the Undergraduate-Associate Program meets a variety of needs. The UAP provides English and study skills instruction and an introduction to American academics which aid the international student's transition into regular baccalaureate studies at Saint Michael's College and elsewhere. UAP students take a combination of special language courses offered by Center faculty and one or two courses chosen from the Saint Michael's curriculum. Students who meet English proficiency requirements can enter the Associate Program upon arrival in the United States. Students who need to improve English proficiency can begin with a period of intensive English study in the Center's Intensive English Program.

The Center's graduate program leads to a Master's Degree in Teaching English as a Second Language. This program prepares teachers for service in a variety of settings in the United States and abroad. The MATESL curriculum gives an overview of current ESL theory and methodology, stresses professional competence in instructional development and delivery, and provides a practicum experience which

relates research and theory to the ESL/EFL classroom. The MATESL graduate student body includes both American and international students. (For further information on the MATESL program, see page 165.)

Saint Michael's College offers a wide variety of liberal arts and sciences majors. The University of Vermont (UVM), a comprehensive state university located in the neighboring city of Burlington, offers many additional programs such as agricultural science and engineering. Since UVM does not have English as a Second Language training programs, a cooperative relationship between the two institutions allows international students to receive English training at Saint Michael's in preparation for continued study at UVM.

Although admission to UVM undergraduate and graduate programs cannot be guaranteed to graduates of the Intensive English programs at Saint Michael's, serious consideration will be given to applications from students who have successfully completed one or more of the following training options at the College:

1. The Intensive English Program
2. The Undergraduate-Associate Program
3. One or two years of undergraduate academic study

The University welcomes applications from qualified Saint Michael's ESL students (minimum TOEFL score of 550).

The College of Agriculture and Life Sciences encourages applications from students interested in animal sciences, agricultural economics, agricultural extension and rural development, and plant and soil sciences. The College of Engineering and Mathematics and the Schools of Natural Resources and Allied Health also offer programs to which Saint Michael's students may apply.

Students who are interested in pursuing continued specialized undergraduate study at UVM should indicate their specific area of interest at the University on their Saint Michael's application so that cooperative advisory services can be provided. For further information about UVM undergraduate admission, contact:

Office of Admissions, Clement House, University of Vermont, Burlington, Vermont 05405 U.S.A., (802) 656-3370.

Students wishing to pursue graduate studies at UVM can obtain application forms from:

Office of Graduate Admissions, University of Vermont, 332 Waterman, Burlington, Vermont 05405 U.S.A., (802) 656-2699.

For further information contact Ralph Swenson, Assistant to the Dean, (802) 656-3160.

THE INTENSIVE ENGLISH PROGRAM (IEP)

This full-time English language program provides intensive English instruction on a year-round basis. The program offers opportunities for short-term (four, six or eight weeks) or extended (three months to one year) study for international students who wish to improve their proficiency in English. Special English programs for groups are offered in summers and during the academic year.

The period of time students spend in this program is determined by personal objectives, English proficiency goals, and progress. Students may use the IEP to prepare for matriculation at a college, entry into the Saint Michael's Undergraduate-Associate Program, or for career advancement or personal development.

Specially trained and experienced instructors conduct four daily classes and guide language and study skills development. Class size is small (10 to 15 students), to allow for intensive instruction and individual participation. Teaching is directed to a progressive advancement in English proficiency, using methods adapted to individual needs. Classroom instruction is supplemented by directed learning experiences in the Language and Computer Laboratories. Cultural and social activities that expand and reinforce in-class curriculum are also provided.

Proficiency tests are given at the beginning and throughout the program to ensure that students are placed in the appropriate level (Beginning, Intermediate or Advanced) of English study. Students are advanced progressively according to individual achievement. Instruction on each level deals with all aspects of language competence: comprehension, conversation, reading and writing, as well as cultural studies. Students who matriculate at Saint Michael's may apply up to six credits from their IEP study towards completion of their undergraduate degree requirements.

THE UNDERGRADUATE-ASSOCIATE PROGRAM (UAP)

The aim of this program is to integrate training in English as a Second Language with undergraduate courses. Many students enroll in this program after satisfactory progress in the Intensive English Program. Students are enrolled in the UAP for one or two semesters, depending upon individual proficiency, and follow courses listed below. With guidance from an advisor, UAP students may also enroll in one or two courses from other academic departments.

ENGLISH FS 100 College Writing

Fall, Spring, Summer

Introduction to the principles of composition and rhetoric. A review of grammar and the mechanics of writing with emphasis on the needs of international students. Study skills, test-taking, library research and other aspects of academic orientation are addressed. This course is comparable to ENGLISH 101, as listed under the Department of English.

Three credits.

ENGLISH FS 102 Introduction to Literature*

Fall, Spring, Summer

Introduces the principles of literary analysis and appreciation through the reading of selected pieces of fiction, poetry, drama, essay and biography. The selections are chosen and treated with the students' cultural background and understanding in mind. This course is comparable to ENGLISH 123, as listed under the Department of English.

Three credits.

ENGLISH FS 104 Advanced College Writing*

Fall, Spring, Summer

Helps students improve their reasoning and writing skills, especially writing for academic purposes. Text material is read and analyzed for content and purpose as well as for the rhetorical patterns of English. Advanced grammar and persistent linguistic problem areas will receive class attention. A research paper is a final course

* Successfully completed Associate Program courses are accepted at full credit toward the Saint Michael's College baccalaureate degree.

project. Students are expected to have a high level of English proficiency to enroll in this course.

Three credits.

DEPARTMENT OF JOURNALISM

DR. EDWARD C. PEASE, *CHAIR*; HART, LYNCH, MCCLURE, *LECTURERS*: DONOGHUE, MONSARRAT, PEEK, POTTER, B. STAYNER, O. STAYNER.

The Department of Journalism is unique at Saint Michael's College, a hybrid discipline based on synthesis of theoretical knowledge in mass communication and the liberal arts, and on practical abilities of gathering, evaluating and communicating information. Since a journalist is, perhaps, the ultimate generalist, this melding of the arts, the sciences, and communications skills is critical to the training of our students—majors and nonmajors alike—as effective communicators and communication consumers in American society.

In short, journalism majors at Saint Michael's learn not only why and how to communicate, but also what to communicate and how that information may influence society. For that reason, journalism majors must gain an understanding of society through a broad liberal arts course of study among all the disciplines. At Saint Michael's, journalism prepares the student to be both a communication professional and a communication consumer in the Information Age.

Students preparing for careers in mass communication also must understand the roles, freedoms and responsibilities of the press in contemporary U.S. society. The journalism curriculum incorporates theoretical and philosophical concepts of the role of the press in a free society in nearly all its courses, in addition to specific courses in media-society issues, media law and ethics, and other facets of the press-society relationship.

The journalism program trains students in the means and methods of gathering, synthesizing and communicating information. All journalism majors and minors must complete courses in basic newswriting, information gathering and other communication skills. Students then elect a sequence of required courses in print journalism, radio or television broadcast journalism, or advertising/public relations, further developing professional skills expected of the communication professional in the 1990s. All majors must complete a professional internship or practicum, putting their learning to work in the real world. Students work with *The Burlington Free Press* and several other Vermont newspapers, with the area's four TV stations and various radio stations, as well as in public relations, advertising, graphics and other fields.

A variety of skills and theoretical electives are also available in the journalism program, ranging from photojournalism to desktop publishing to media criticism and examination of media treatment of women and minorities. Journalism classes feature an array of modern communication equipment, including an IBM newswriting lab, a small Macintosh lab, the WWPV-FM student radio station and the new TV lab, which includes equipment for shooting and editing super-VHS video.

The journalism major is designed to prepare well-rounded, liberally-educated graduates for careers in a range of communication fields, including newspaper and magazine journalism, television and radio broadcasting, public relations and advertising. Students produce the award-winning weekly newspaper, *The Defender*,

and the student radio station's best-in-New England daily drive-time news program as part of their coursework. The college yearbook, an alternative student newspaper and the literary review offer other opportunities for student participation.

The Department of Journalism was made possible through grants from the Frank E. Gannett Foundation in 1974 and other sources, the proceeds of which continue to support the program.

REQUIRED FOR THE JOURNALISM MAJOR:

1. **Threshold Requirements:** To be considered for the major, students must complete the following:

EN 101 College Writing (3 credits-minimum C)
 JO101 Mass Communication & Society (3 credits)
 Typing Proficiency Test (25 w.p.m.)
 English Proficiency Test (three opportunities, with tutoring available)
 Application for major possible after second semester.

2. **Required in Journalism** (17 credits):

JO103 Graphics of Communication (3 credits)
 JO201 Newswriting (4 credits-minimum C)
 JO203 Information Gathering (4 credits-minimum C)
 JO213 Media Law & Ethics (3 credits)
 JO460 Senior Seminar in Journalism (3 credits)

3. **In addition to the above**, students must select one of the following sequences (maximum of 18 credits within a selected sequence):

Print Sequence:

JO315 Print Editing & Layout (3 credits)
 JO403 Advanced Reporting (4 credits) **OR**
 JO407 Reporting Public Affairs (4 credits)
 JO411 Advanced Newspaper Editing (4 credits)
 JO413 Journalism Practicum (3 credits)

AND CHOOSE any additional Journalism electives to total 18 credits.

Broadcast News Sequence:

JO253 Principles of Broadcast News (3 credits)
 JO331 Writing and Reporting Radio News (4 credits) **AND**
 JO333 Producing and Directing Radio News (4 credits) **OR**
 JO361 Television News Reporting (4 credits) **AND**
 JO363 Advanced TV News Production (4 credits)
 JO413 Journalism Practicum (3 credits)

AND CHOOSE any additional Journalism electives to total 18 credits.

Public Relations/Advertising Sequence:

JO241 Principles of Public Relations (3 credits)
 JO343 Writing for Public Relations (4 credits)
 JO413 Journalism Practicum (3 credits)
 JO451 Advanced Public Relations (4 credits)

AND CHOOSE any additional Journalism electives to total 18 credits.

4. **Required outside Journalism** (all journalism majors must complete the College's Liberal Studies requirements, plus:

PH203 Ethics (3 credits) or other ethics course with adviser's permission.

HI203 Growth of the American Nation (3 credits) **OR**

HI423 U.S. in the 20th Century II (3 credits)

One science course.

One mathematics course.

One 300-level social science core course from Liberal Studies curriculum.

Demonstrate intermediate foreign language proficiency.

5. **Specialization Requirements** (18 credits). The specialization requirement is designed to assist majors in developing an area of expertise outside journalism. Essentially a self-designed minor, it consists of a minimum of 18 credits (*including at least three upper-level courses*) chosen in consultation with the adviser:

A.) Minimum of 18 credits in a single area outside journalism; **OR**

B.) Nine credits in a single area plus nine credits in related areas, outside journalism.

REQUIRED FOR THE JOURNALISM MINOR:

Completion of the Threshold requirements

JO101 Mass Communication & Society (3 credits)

JO103 Graphics of Communication (3 credits)

JO201 Newswriting (4 credits-minimum C)

JO203 Information Gathering (4 credits-minimum C)

JO213 Media Law & Ethics (3 credits)

AND CHOOSE one upper level Journalism elective

101 Mass Communications and Society

Fall and Spring

A broad survey that examines the development, roles, freedoms and responsibilities of mass communication in society. In addition to study of the historical, social, economic, psychological and political aspects of journalism, the course uses current events as a starting point for discussion of the impact of mass communication as a social institution.

Open to non-majors; juniors and seniors require permission of instructor. Three credits. SOCIAL SCIENCE LIBERAL STUDIES REQUIREMENT.

103 Graphics of Communication

Fall or Spring

A survey of graphic and visual communication in theory and practice. This course is intended to provide the beginning journalist with the basics of visual literacy and the theoretical basis for visual communication, including typography, color, photography, graphic design and mechanical and computerized processes of communicating graphic information in conjunction with the written word.

Sophomore standing; non-majors with permission of the instructor. Lab fee: \$20. Three credits.

201 News Writing

Fall

The basics of journalistic writing, concentrating on the organization and presentation of factual information in newspaper style. Elements of news, techniques of story organization, journalistic writing styles. Students typically write several stories a week

on computer, both in and outside of class, evaluate each other's work, meet with news professionals, discuss news events and cover out of class assignments.

Prerequisite: English Proficiency Test and typing test. Sophomore standing; preference to journalism majors. Lab fee: \$40. Four credits.

203 Information Gathering Spring

Techniques for gathering information, news, and researching material for publication, including interviewing, meeting and event coverage, computer-based database searches, Freedom of Information Act requests, and other mechanisms for collecting information. Course is heavily writing-intensive, with multiple stories each week researched and written in class and out. Students are expected to contribute articles to *The Defender* and other publications.

Prerequisite: minimum C in Journalism 201. Lab fee: \$40. Four credits.

213 Media Law and Ethics Spring

First Amendment law in the context of the press, including the philosophical basis for the constitutional guarantees of free expression, and examination of case law affecting the mass media. Also covers media ethics, libel, privacy, journalistic privilege, access to information, and other issues.

Prerequisite: Sophomore standing. Non-majors require permission of instructor. Three credits.

219 Introductory Photography Fall and Spring (See Art 219)

Basics of photography, including photographic principles, use of the 35mm camera, understanding of concepts of light, tone, texture, composition and depth of field; basic visual literacy; beginning darkroom techniques; history and appreciation of photography as an art form.

Class limited to 12 students. Students must have access to a 35mm SLR camera. Lab fee: \$75. Three credits.

221 Photojournalism Fall and Spring

Applied photographic techniques in the journalistic context, with an emphasis on camera technique, darkroom processing, picture editing and photographic essay planning and execution for publication. Students contribute to *The Defender* and other campus publications.

Prerequisite: minimum C in Journalism 219 or permission of instructor. Class limit is 12 students. Preference is given to journalism majors. Students must have access to a 35mm SLR camera.. Lab fee: \$75. Three credits.

241 Principles of Public Relations Fall or Spring

The principles, theories and history of public relations in U.S. mass communication, including not only the role and responsibilities of public relations, but also the power and potential of communication in public relations. Includes relevant mass communication theory and the basic techniques of communicating to selected audiences.

Sophomore standing; open to non-majors with instructor permission, but preference given to journalism majors. Three credits.

253 Principles of Broadcast News

Fall

The basic principles, theories, history and performance of broadcast news in U.S. mass communication and the role of broadcast news in U.S. society. The responsibilities of broadcast and electronic news organizations as social institutions, and their relationships with other institutions, including the potential and the limitations of the electronic media to influence society. Includes not only history of broadcasting, but current trends and future potential of mass media's technological explosion.

Sophomore standing; open to non-majors with instructor permission, but preference given to journalism majors. Three credits.

271 Mass Media in a Diverse Society

Alternate Years

Examines the role of the mass media — newspapers, magazines, film, broadcasting and others — in portraying and representing the multicultural elements of an increasingly diverse U.S. society. Students evaluate how the media cover minorities and women and perpetuate stereotypes. Includes appropriate mass communication theory and a survey of selected scholarly research.

Sophomore standing; open to non-majors. Three credits.

311 History of U. S. Media

Alternate years

The evolution and growth of the mass media in the United States from a historical perspective, in the context of political, social, economic and demographic change.

Junior standing or permission of instructor; open to non-majors. Three credits.

**313 International Communications:
The U.S. and Foreign Press**

Alternate years

World communication systems in the global village, including newsgathering agencies, press systems, cultural imperialism, the flow of world news and information, characteristics of the foreign press and the role of foreign correspondents in U.S. and non-U.S. media.

Junior standing or instructor's permission; open to non-majors. Three credits.

315 Print Editing and Layout

Fall and Spring

Editing articles for print publication, including heavy emphasis on language and newspaper style; headline writing; caption writing; photo editing and sizing; newspaper design and layout.

Prerequisite: minimum C in Journalism 203; junior standing. Lab fee: \$45. Three credits.

319 Special Topics in Journalism

Fall or Spring

Various topics, ranging from women in the mass media to gender and communication to desktop publishing to literary journalism. Course may be taken more than once in different topic areas.

Sophomore standing; open to non-majors with permission of instructor. One to three credits.

- 321 Advanced Photojournalism Spring**
Explores in depth various techniques and approaches to photojournalism, including photo essays, spot news coverage, feature photography, portraits and other genres. Students contribute weekly to *The Defender* and to other publications as appropriate.
Prerequisite: minimum C in Journalism 221 or permission of instructor; open to non-majors. Students must have access to a 35mm SLR camera. Lab fee: \$75. Three credits.
- 331 Writing and Reporting Radio News Fall and Spring**
Introduces students to newsgathering, interviewing and production of news for radio broadcast. Students produce material from the Associated Press wire and original reporting for a half-hour live radio newscast, the WWPV Drivetime News, in every class, followed by a critique.
Sophomore standing; open to non-majors with instructor's permission. Lab fee: \$50. Four credits.
- 333 Producing and Directing Radio News Fall and Spring**
For advanced radio students, who manage the Journalism 331 newsgathering staff in the daily production of the live half-hour WWPV Drivetime News program. Students are introduced to the concepts and practices of production and direction of a radio newsprogram, including program content, staff management, engineering and direction of a live broadcast.
Prerequisites: minimum C in Journalism 331 and permission of instructor. Lab fee: \$50. Four credits.
- 343 Writing for Public Relations Fall or Spring**
Instruction and writing practice designed to develop the specific professional writing skills expected of the public relations practitioner. Course emphasizes different approaches and writing styles designed to accomplish different tasks for different audiences.
Prerequisite: minimum C in Journalism 203; open to non-majors with permission. Lab fee: \$20. Four credits.
- 361 Television News Reporting Fall**
Basic techniques of writing and newsgathering for video, including history and practice of the TV news industry, examination and analysis of TV news content, evaluation of the social impact of TV news, hands-on training in shooting and editing video footage for broadcast, using Super-VHS cameras and editing equipment in the SMC-TV video lab.
Prerequisites: minimum C in Journalism 253; open to non-majors with instructor's permission. Lab fee: \$75. Four credits.
- 363 Advanced Television News Production Spring**
For advanced video broadcasting students, this course involves techniques of video production of news and documentaries, in-depth analysis of network and cable news programming, and a variety of shooting and editing projects in the SMC-TV video facilities.
Prerequisites: minimum C in Journalism 361. Lab fee: \$75. Four credits.

369 The Development of the Catholic Press Spring
Theological, historical and sociological aspects of the Catholic press, both print and electronic, and its role in America.

Sophomore standing or instructor's permission; open to non-majors. Three credits.

371 Contemporary Issues in the News Media Spring
A critical analysis in seminar format of pressing issues confronting the news media, typically resulting in a class research project investigating issues designated by the class. Such projects might include examinations of media treatment of women or minorities, a content analysis of press accounts about AIDS or other social issues, analysis of crime on primetime TV, or evaluation of political candidates or issues as portrayed in the media. Students read research and industry reports on issues ranging from press credibility to coverage studies to polls and surveys, and hear from a variety of news professionals on current events in the news.

Sophomore standing; open to non-majors. Four credits.

403 Advanced Reporting Fall
Advanced techniques in newsgathering, interviewing and news writing for publication, including in-depth features and breaking news coverage. Students write for *The Defender* and other publications as appropriate.

Prerequisite: minimum C in Journalism 203. Lab fee: \$40. Four credits

405 Principles of Advertising Fall
A broad study of mass media advertising, including its planning, creation, targeting and implementation. The course reviews advertising in all media operations and attempts to lead students through as much practical application as possible.

Same as Business 405. Prerequisite: permission of instructor. Three credits.

407 Reporting of Public Affairs Fall
Permits students to cover issues or beats in depth, providing advanced training and practice in newsgathering and writing on issues of public concern. Students typically cover the Vermont state legislature or other governmental bodies and may report for *The Defender* or other appropriate publications.

Prerequisites: minimum C in Journalism 203 and completion of 213. Lab fee: \$40. Four credits.

409 Feature Writing Fall or Spring
A writing-intensive course designed to permit students to concentrate on individual in-depth writing projects for newspapers and magazines. Students examine writing styles, learn the process of marketing free-lance articles for the magazine market, and complete a variety of articles for possible publication.

Open to non-majors with permission of instructor. Three credits.

411 Advanced Newspaper Editing and Design Fall and Spring
Brings together the theoretical and experiential learning of previous courses as students design, lay out and produce the weekly student newspaper, *The Defender*. Students assign stories and photos, work with student reporters, write stories, edit

copy, write headlines and photo captions, design and lay out pages on Macintosh equipment on a weekly deadline.

Prerequisite: minimum C in Journalism 315 and permission of the instructor. Four credits.

413 Journalism Practicum Fall and Spring

Provides practical, real-world experience in a media organization. Students work 10 to 20 hours a week for newspapers, radio or television stations, in public relations or other communication positions.

Prerequisite: junior standing and instructor's permission; open to non-majors with permission. Three credits.

451 Advanced Public Relations Spring

A dual classroom/practicum course. Advanced public relations students work in teams with faculty and area non-profit agencies as consultants on specific public relations problems, conducting opinion polls, preparing campaigns and producing appropriate products for their non-profit clients.

Prerequisites: Journalism 241 and Journalism 343, or permission of instructor; senior standing preferred. Four credits.

460 Senior Seminar in Journalism Spring

This capstone course permits students to explore issues of particular interest to them in their chosen fields. A senior thesis is required, developed and researched in consultation with the instructor and presented to the class, involving primary research and interviews with appropriate media professionals.

Prerequisites: senior standing and permission of the instructor. Three credits.

498 (398) Journalism/Mass Communication Internship Fall or Spring

Mass media internships offered both on and off campus. Students must apply through the journalism department chair and the College internship office in the first month of the semester prior to the semester in which the internship will take place.

Prerequisite: Twelve hours of earned credits in journalism, appropriate departmental grade average, endorsement by adviser and permission of department chair. Three credits.

499 (299 & 399) Independent Study Fall or Spring

Credit for work done outside regularly scheduled journalism courses, in research, fieldwork or individually designed program. Students must submit a proposed course of study to a faculty supervisor.

Prerequisite: Twelve hours of earned credits in journalism, appropriate departmental grade point average, endorsement by adviser and permission of department chair and Dean of the Undergraduate College. Variable credit.

LIBRARY BIBLIOGRAPHIC INSTRUCTION

DR. RICHARD M. COCHRAN, *DIRECTOR OF LIBRARY AND COORDINATOR*; BOISNIER, BOUCHARD-HALL, HAUTALA, MCATEER, MCCAFFREY.

The resources of the College library are fundamental for the achievement of the educational goals of the liberal arts. Librarians at Saint Michael's College have traditionally provided students a variety of one-on-one and course-associated educational experiences. Students enrolled in the 1992-93 academic year will have the opportunity to enroll in the first semester-long course to develop library research strategies.

101 **Mastering the College Library**

Fall and Spring

Introduces students to the fundamentals of efficient library research through a systematic exploration of library materials, search strategies, and retrieval procedures. Computer-assisted techniques and resources, including the Durick Library's on-line catalog and access to distant data bases will be emphasized. Recommended for lower division students.

Two credits.

DEPARTMENT OF MATHEMATICS

DR. ZSUZSANNA KADAS, *CHAIR*; CLEARY, HEFFERON, JULIANELLE, SIMONS;
LECTURERS: ELLENBOGEN, KASTEN, NARAMORE.

Mathematics has, for centuries, been the foundation and language of the physical sciences. In our time, mathematical models and tools have come to pervade the biological and social sciences as well. Mathematics is an art, apprehending and creating structure and order in the universe. Mathematics is intellectually stimulating because it demands clarity and precision. Consequently, the mathematics department believes that some understanding of mathematics will enhance the study of every discipline, and offers courses at a variety of levels to help all students develop their skill in mathematical reasoning.

The major is designed to encompass diverse goals, ranging from applied work in science or industry to teaching or graduate study. The required courses provide a strong foundation in the principal areas of mathematics; the electives offer an opportunity to tailor the program to individual needs. Students should consult an advisor in the mathematics department to design programs consistent with their aims.

Mathematics majors are attractive to a wide variety of business and industrial firms, especially if the major is combined with some coursework in computer science, a natural science, economics, or business; many find work in the actuarial field or as analysts in the computer or communications industry. Mathematics majors may prepare to teach at the secondary school level by simultaneously completing Education courses, including a semester of student teaching, which lead to state certification.

The mathematics major provides the background for graduate study in Pure or Applied Mathematics, Statistics, or (with some coursework in Biology) Biostatistics.

Combined with appropriate courses in other areas, the major may also be used to prepare for professional programs such as medical school, law school or an M.B.A. program.

REQUIRED FOR THE MATHEMATICS MAJOR:

MA109	Calculus I (4 credits)
MA111	Calculus II (4 credits)
MA211	Calculus III (4 credits)
MA213	Linear Algebra (4 credits)
MA251	Probability and Statistics (4 credits)
MA303	Differential Equations (4 credits)
MA307	Abstract Algebra (4 credits)
MA401	Real Analysis I (4 credits)
MA410	Seminar (1 credit)
CS101	Computer Programming I (4 credits)

AND CHOOSE four Mathematics courses at or above the 200 level (3 credits each); at least one of these must be a 400-level course; MA208 may not be counted.

IN ADDITION, CHOOSE ONE OF THE FOLLOWING LABORATORY SCIENCE COURSES:

PY151	Electronics (4 credits)
PY210	College Physics (4 credits)
CH103	Stoichiometry (4 credits)
CH105	Stoichiometry (4 credits)
BI101	General Biology (4 credits)
BI103	General Biology (4 credits)

NOTE: Physics 210-211 is strongly recommended to all majors because it offers valuable insight into the intimate connection between mathematics and physical science and provides an intensive experience in the application of calculus. Computer Science 103 is also highly recommended because of the great impact of computers on mathematics. Students who are considering graduate school should bear in mind that some graduate schools require a reading knowledge of French, German or Russian for the Ph.D.

REQUIRED FOR THE MATHEMATICS MINOR:

MA109	Calculus I (4 credits)
MA111	Calculus II (4 credits)
MA211	Calculus III (4 credits)
MA213	Linear Algebra (4 credits)

AND CHOOSE any additional Mathematics electives at the 200 level or above, EXCEPT 208.

100 Precalculus Mathematics

Fall and Spring

Fundamental concepts of Intermediate Algebra ranging from factoring to radical expressions; linear and quadratic equations; inequalities; binomial theorem; trigonometric functions, identities, and equations. Provides the background necessary for calculus.

Three credits May not be taken for credit concurrently with, or following receipt of credit for, any mathematics course numbered 103 or above..

101 Finite Mathematics

Fall and Spring

An introduction to concepts of modern mathematics with applications to business, economics and the social sciences. Among topics considered are linear systems, matrices, linear optimization, sets, combinatorics, and probability. Topics may also include logic, Markov chains and game theory; or difference equations and the mathematics of finance.

Non-majors only. Three credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

102 Elementary Statistics

Fall and Spring

Nature of statistical methods, description of sample data, probability, probability distributions, sampling, estimation, hypothesis testing, and correlation and regression.

Non-majors only. Three credits.

103 Elements of Calculus

Fall and Spring

A one-semester survey calculus course. Not designed for those desiring a more rigorous investigation of the fundamental topics of calculus. Topics include derivatives and their applications, integration, applications of the definite integral.

Three credits Credit will not be given for Mathematics 103 if credit has already been received for Mathematics 105 or 109. Prerequisites: Intermediate algebra and trigonometry or Mathematics 100. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

105 Calculus with Precalculus

Fall

A first course in Calculus integrated with precalculus material. Intended for students requiring a review of the elementary functions. Polynomial, trigonometric, and exponential functions; derivatives and their applications. Area and the integral.

Four credits. Credit will not be given for Mathematics 105 if credit has already been received for Mathematics 103 or 109.

109-111 Calculus I and II

Two semesters

Functions, limits, continuity; differentiation, integration and applications. Transcendental functions, plane analytic geometry, infinite sequences and series.

Prerequisites: Intermediate algebra and trigonometry or Mathematics 100; for second semester, successful completion of first semester, Mathematics 105, or permission of instructor. Four credits each semester. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

207 Mathematical Foundations for Computer Science I

Fall

Topics from Discrete Mathematics chosen for applicability to Computer Science: propositional logic; Boolean circuits; techniques of formal proof; sets, functions and relations; recursion and recurrence relations; graphs and networks; finite state machines, languages and Kleene's Theorem.

Four credits.

208 Mathematical Foundations for Computer Science II

Spring

Mathematical theory of computation: computation models including finite state machines and bounded automata; lambda calculus; primitive recursive and recursive

functions; Turing machines, computability, and the Halting Problem; NP completeness; other topics.

Prerequisite: Mathematics 207 and Computer Science 101. Four credits.

211 Calculus III

Fall

Continuation of Mathematics 109-111. Polar coordinates, parametric equations, vectors, and vector-valued functions, partial differentiation, multiple integrals and their applications, line integrals.

Prerequisite: Mathematics 111. Four credits. NATURAL AND MATHEMATICAL LIBERAL STUDIES REQUIREMENT.

213 Linear Algebra

Spring

Systems of linear equations; vector spaces; linear independence and bases; direct sums; linear maps; matrices; determinants; eigenvalues and eigenvectors; canonical forms.

Prerequisite: Mathematics 211. Four credits.

214 Number Theory

Spring

Alternate Years

Divisibility and prime numbers; congruences and arithmetic modulo n ; the Chinese Remainder Theorem; quadratic residues; Diophantine equations.

Three credits.

216 Combinatorics

Spring

Alternate years

The principles of counting: sets, functions, and relations; induction; permutations, combinations, and the binomial theorem; inclusion and exclusion principles; pigeonhole principle; equivalence relations, multisets, distributions; partitions. Additional topics may be chosen from Stirling numbers, generating functions, graph theory, designs, partially ordered sets, codes.

Three credits.

251 Probability and Statistics

Fall

A first course in probability and statistics for students who have a background in Calculus. Introduction to probability and combinatorics; discrete distributions; density functions, moments; the normal and exponential distributions with applications; the Central Limit Theorem.

Prerequisite: Mathematics 103, 105 or 109; Mathematics 111 is recommended. Four credits.

303 Differential Equations

Spring

First order differential equations with a variety of applications including examples from biology and physics; qualitative analysis; approximation of solutions. Second order linear equations and applications; series solutions. Systems of differential equations. Other topics may include phase plane analysis, Laplace transforms, boundary value problems.

Prerequisite: Mathematics 211. Four credits.

304 History of Mathematics

Fall

Alternate years

A problem study approach to the history of mathematics emphasizing student participation. The treatment is restricted to "elementary" mathematics, that is, mathematics through the beginning of calculus. Among the topics considered: number systems, Babylonian and Egyptian mathematics, Pythagorean mathematics, duplication, trisection and quadrature, Euclid's Elements, Hindu-Arabian mathematics, and the dawn of modern mathematics.

Prerequisites: At least one year of calculus. Three credits.

305 Numerical Analysis

Spring

Alternate years

Studies methods for approximating the solutions to mathematical problems which are difficult or impossible to solve exactly. Topics include approximation of functions, roots of nonlinear equations, numerical differentiation and integration, interpolation and curve fitting, systems of linear equations, and numerical solution of ordinary differential equations.

Prerequisites: Computer Science 101, Mathematics 211. Three credits.

307 Abstract Algebra

Fall

Basic theory of groups, rings and fields; subgroups, normal subgroups and quotient groups; ideals and quotient rings; the homomorphism theorems.

Prerequisite: Mathematics 213 or permission of instructor. Four credits.

**308 Euclidean and
Non-Euclidean Geometries**

Fall

Alternate years

Especially useful for prospective teachers of mathematics. Among the topics considered are Euclid's geometry, informal logic, Hilbert's axioms, neutral geometry, the history of the parallel postulate, the discovery of non-Euclidean geometry, the independence of the parallel postulate, and some of the philosophical implications of these topics.

Prerequisite: At least one year of calculus. Three credits.

317 Applied Mathematics

Fall

Alternate years

Series methods for function representation and solution of ordinary and partial differential equations. Vector methods as used by the sciences are covered, particularly the use of differential operators on scalar and vector functions. Applied matrix algebra and calculus of variations are also discussed.

Prerequisite: Mathematics 303 or equivalent. Three credits.

401 Real Analysis I

Fall

A rigorous study of the real number systems: field and order axioms, completeness, and topology. Limits, sequences and series. Functions and continuity; pointwise and uniform convergence. The derivative and the Riemann integral.

Prerequisite: Mathematics 211 and 213. Four credits.

403 Real Analysis II*Spring
Alternate years*

Functions of several variables; the derivative and Riemann integral in \mathbb{R}^n ; implicit and inverse function theorems; other topics in analysis.

Prerequisite: Mathematics 401. Three credits.

405 Complex Analysis*Fall
Alternate years*

The topology and the algebraic structure of the complex numbers; differentiation and integration of complex-valued functions; power series and Laurent series; Cauchy's theorem and the residue calculus.

Prerequisite: Mathematics 401 or permission of instructor. Three credits.

407 Abstract Algebra II*Spring
Alternate years*

Construction of extension fields; field automorphisms and Galois theory; the Fundamental Theorem of Algebra; insolvability by radicals of quintic equations. Other topics may vary according to the instructor.

Prerequisites: Mathematics 307. Three credits.

410 Seminar in Mathematics

Exposes students to a variety of topics of current interest. Students will present lectures on appropriate topics.

One credit.

411 Special Topics in Mathematics*Occasionally*

May be offered when a group of students and an instructor are interested in pursuing topics in mathematics not covered in the regularly scheduled courses. Topics may be proposed to the department chair, by a group of students or by an instructor.

Prerequisites: Junior standing; permission of instructor. Three credits.

451 Statistical Inference*Spring
Alternate years*

Uses the theory and methods of Mathematics 251 to explore in detail the use of one or more common statistical techniques. Topics may include regression and analysis of variance, time series, multivariate statistics, and nonparametric methods. Applications will be included through the use of computer assignments and data analysis projects using real data sets from a variety of sources.

Prerequisite: Mathematics 251. Mathematics 211 and 213 recommended. Three credits.

490

Readings and Research in Mathematics

Fall and Spring

An opportunity for advanced students to undertake independent study or research. Topics will be chosen and study conducted in close consultation with a member of the mathematics faculty. Generally, results will be submitted in written form and presented in a seminar.

Prerequisites: Junior standing; permission of instructor, department chair, and Dean of the Undergraduate College. Meetings and credit to be arranged.

DEPARTMENT OF MODERN LANGUAGES AND LITERATURE

DR. KATHLEEN RUPRIGHT, *CHAIR*; DELANEY, ELNITSKY, FERDINAND, LANGUASCO, MCCONNELL, QUIROZ, YOSHIMURA.

In these days of global complexities and rapid changes in the international scene, we need to prepare our students to address the challenges which our society is already facing in so many areas; the environment, politics, business and communications are just a few of the many fields in which languages are of increasing importance. The ability to communicate in languages other than English is also necessary within our own society. It is likely that during their professional careers college graduates will need an understanding of one or more foreign languages. A recent congressional report ("The Quiet Crisis of Global Competence," by Congressman Leon Panetta, 1991) underscores the need for knowledge and proficiency in other languages and cultures in science and technology, all service industries, the medical professions, and business and finance. The programs we offer to students are geared to 1) help them achieve proficiency in one or more of the six languages we teach—French, German, Italian, Japanese, Russian, and Spanish; 2) expose them to the cultures from which these languages spring; and 3) help them to develop critical skills and a knowledge of literature.

We offer majors in French and Spanish, minors in French, Spanish and Russian Studies, and a variety of literature and culture courses taught in English, some of which satisfy the Humanities, Global Perspectives and/or the Interdisciplinary Studies portion of the Liberal Studies requirements.

The Department encourages students to spend some time studying in another country, and with the Study Abroad Advisor provides aid in choosing the program which best fits each student's needs.

APPLIED FOREIGN LANGUAGE COMPONENT

Students who have completed the 210 course in a foreign language may continue to develop their proficiency in specially-designed courses in the Modern Languages Department or in other disciplines. Students may select a specifically designed course, taught in English, but which includes an Applied Foreign Language Component. This allows them to read, in the foreign language, selected texts pertinent to the subject matter of the course. Students meet one additional hour per week with their instructor(s) to discuss the texts in the foreign language. Those who successfully complete the foreign language portion of such a course will receive an additional credit.

Although the English-language portion does not apply to the major or minor (except for Russian Studies), credit for the Applied Foreign Language Component

311 Conversation avancée

Spring

Total immersion in all forms of oral expression. In the laboratory, television and other audio-visual aids help increase comprehension of spoken French. In a relaxed atmosphere of family-like informality, student overcome self-consciousness and develop ease and spontaneity in the use of the French language.

In French. Five credits.

313 Introduction à la littérature française

Fall

Offered in 1992 to those students who have already completed French 305-307 under the old program, and who therefore are ineligible for French 303. Designed to provide a framework for literary studies, this course emphasizes the history and development of French literature through readings and discussion of representative excerpts and short works.

In French. Three credits.

317 La Poésie

Not offered in 1992-93

An exploration of poetry, leading to an appreciation of its uniqueness as a genre. The course will discuss what makes poetry different from other literary forms, and will provide the student with a better understanding of poetry and with the tools of poetic analysis.

In French. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

319 Le Théâtre

Not offered in 1992-93

Explores works chosen from the rich body of French farce, tragedy, comedy and drama. Discussion will center on the unique qualities of this genre. Students may have the opportunity to participate in a theatrical presentation and/or see a performance in Montréal.

In French. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

343 Topics in Francophone Culture

Spring

Cultures of French-speaking countries and regions outside France (Québec, Africa, the Caribbean, New England, etc.). Courses could cover such topics as: the Culture of Québec, Haitian Culture through its Art, Sub-Saharan Francophone Culture, New England's Franco-Americans, The Oral Tradition in Francophone Culture. May be repeated for credit barring duplication of materials.

In English. Three credits. Applied Foreign Language Component (one credit) available in French. INTERDISCIPLINARY AND GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

353 Topics in French Culture

Not offered in 1992-93

A variety of perspectives and topics, including artistic, historical, geographic and political expressions of French culture. Courses could cover such topics as the Enlightenment, Women in France, Rural Life in France or French Impressionism, for example. May be repeated for credit barring duplication of materials.

In English. Three credits. Applied Foreign Language Component (one credit) available in French. INTERDISCIPLINARY AND GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

363 Lectures: la littérature francophone *Spring*
 Readings in Francophone literatures from outside France (Québec, Africa, the Caribbean, New England, etc.). Courses could cover such topics as: French-Canadian Women Authors, Haitian Literature of the Diaspora, Literature of the Négritude Movement in Africa and the Caribbean. May be repeated for credit barring duplication of materials.

In French. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

395 Modern Québec *Not offered in 1992-93*
 (See Economics 395)
 Emphasizes the unique culture, history, and traditions of Québec and her peoples, and explores how specific institutions and behaviors are linked to that culture. It will explore post-World War II changes in Québec self-awareness, cultural expressions, political participation, economic institutions, and the socioeconomic position of francophone Québécois.

In English. Prerequisite: French 110. Three credits. Applied Foreign Language Component (one credit) available in French.

399 Independent Study *Fall and Spring*
 Permits the student to gain academic credit for work done outside of regularly scheduled courses. The course may be based on research, directed readings or special internship programs (when available). A plan of study must be submitted and approved prior to enrollment, and the fee for independent study is applicable.

Prerequisite: Eighteen hours of earned credit in French, permission of instructor, department chair and the Dean of the Undergraduate College. Three credits.

415 Roman du XIXe siècle *Fall*
 A study of one of the richest eras in the history of the narrative. This course will focus on the movements of Romanticism, Realism and Naturalism, and will cover such authors as Hugo, Flaubert, de Maupassant and Zola.

In French. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

421 Roman du XXe siècle *Spring*
 An examination of the development of the narrative in Francophone literature. The course will focus on movements such as Existentialism, the Absurd and Négritude, and may cover such authors as Malraux, Sartre, Camus, Laye and Blais.

In French. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

423 Ad Hoc Seminar *Not offered in 1992-93*
 A subject chosen by the instructor in consultation with the students. Topics could treat a specific author, a movement or school, or a cultural, historical or philosophical movement of literary importance.

In French. Three credits.

499 Senior Thesis *Fall and Spring*
 Permits the student to gain academic credit for work done outside regularly scheduled courses. The work may be in the area of research, directed readings, or special

internship programs (when available). A plan of study must be submitted and approved prior to enrollment.

Prerequisite: Eighteen hours of earned credit in French, permission of instructor, department chair, and Dean of the Undergraduate College. Two credits.

SPANISH

REQUIRED FOR THE SPANISH MAJOR:

SP301 Composición y gramática (3 credits)

SP303 Estudios literarios (4 credits)

SP311 Conversación avanzada (5 credits)

SP499 Senior Thesis (2 credits)

AND CHOOSE at least 16 additional credits in Spanish at the 300/400 level; among these may be included AFLC credits earned in Spanish.

REQUIRED FOR THE SPANISH MINOR:

MINIMUM of 20 credits at the 200 level or above (courses must be taught in Spanish); among these may be included AFLC credits in Spanish.

110 Introduction to Spanish

Fall

An intensive course, for beginners and students with limited preparation, designed to develop proficiency in the basic language skills.

Five credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.

210 Intermediate Spanish

Fall and Spring

An intensive course offering practice in conversation, grammar review, reading and composition. Course material will be based on various aspects of Hispanic culture, including literature.

Five credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.

301 Composición y gramática

Fall

Develops skills in descriptive, narrative and expository writing in Spanish. Model texts will be analyzed, and students will be guided toward the acquisition and mastery of vocabulary and grammar essential to good writing.

In Spanish. Three credits.

303 Estudios literarios

Spring

Continues the work begun in Spanish 301 by developing skills in the writing of literary criticism and research papers, familiarizes students with different literary genres and styles, and introduces students to the principal literary movements and authors of Hispanic literature.

Prerequisite: Spanish 301. In Spanish. Four credits.

311 Conversación avanzada Spring

Total immersion in all forms of oral expression. In the laboratory, television and other audio-visual aids help increase comprehension of spoken Spanish. As part of course work, students may organize and participate in many different kinds of activities, including trips to Montreal to see films and to visit art galleries, the production and presentation of plays, a Latin American Festival, coffee hours and dinners with native Spanish speakers.

Prerequisite: Spanish 210 or placement at third-year level. In Spanish. Five credits.

313 Topics in Latin American Culture Not offered in 1992-93

Examines Latin American countries and their cultures. Possible topics include Women in Latin America, Liberation Theology, Dictatorships and the Disappeared, Arts and Music. May be repeated for credit barring duplication of materials.

In English. Three credits. Applied Foreign Language Component (one credit) available in Spanish. INTERDISCIPLINARY AND GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

321 Latino Cultures in the United States Spring

A historical, cultural and literary survey of the three largest Spanish-speaking groups in the U.S.: the Chicanos, the Puerto Ricans and the Cubans.

In English. Three credits. Applied Foreign Language Component (one credit) available in Spanish. INTERDISCIPLINARY AND GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

335 Readings in Latin American Literature Not offered in 1992-93

Readings in literature from Central America, the Caribbean and South America. Topics may include: the Mexican Revolution, Magic Realism, Women Novelists, the Urban Novel. May be repeated for credit barring duplication of materials.

In English. Three credits. LITERARY AND GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

COURSES IN LATIN AMERICAN LITERATURE

325 El Cuento Not offered in 1992-93

A study of the evolution of the short story from its earliest forms through its rise to an important literary form in Latin America. Includes stories by some of the best twentieth century writers: Borges, Carpentier, Rulfo, Cortázar, Lynch, Poniatowska, Ferré.

In Spanish. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

327 La Poesía Not offered in 1992-93

A survey of contemporary Latin American poetry from modernism to the present. The social and cultural aspects of feminism will also be considered. Students will read works by authors such as Martí, Darío, Mistral, Agustini, Neruda, Paz and Castellanos.

In Spanish. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

331 El Teatro

Spring

Traces the development of drama in Latin America from pre-Columbian forms to contemporary experimental drama. Class work may include the actual dramatization of scenes from plays, in order to emphasize the uniqueness of and the special problems involved in the study and production of drama.

In Spanish. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

333 La Novela

Fall

Includes some of the most innovative and intriguing novels written in this century, by such authors as Bombal, García Márquez, Fuentes, Garro, Cortázar, Puig.

In Spanish. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

COURSES IN SPANISH LITERATURE

399 Independent Study

Fall and Spring

Permits the student to gain academic credit for work done outside of regularly scheduled courses. The course may be based on research, directed readings or special internship programs (when available). A plan of study must be submitted and approved prior to enrollment, and the fee for independent study is applicable.

Prerequisite: Eighteen hours of earned credit in Spanish, permission of instructor, department chair and the Dean of the Undergraduate College. Three credits.

413 El Teatro

Not offered in 1992-93

Traces the evolution of drama in Spain, beginning with the Golden Age *comedia* and the *entremes*. Neoclassical and Romantic plays, dramas written by members of the Generation of '98 and postwar theater may be included. Class work may entail the dramatization of scenes in order to emphasize the uniqueness of and the special problems involved in the study of this genre.

In Spanish. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

441 La Novela

Fall

A survey of the Spanish novel, from its early forms, such as the picaresque, to the contemporary period. Topics may include the Realistic novel, the Naturalistic novel, the Generation of '98 and the postwar novel.

In Spanish. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

443 Cervantes y su obra

Not offered in 1992-93

Works by Spain's greatest writer: his *entremeses*, *Novelas ejemplares*, and, of course, *El ingenioso hidalgo don Quijote de la Mancha*. The latter will be analyzed from an historical and technical viewpoint, with emphasis on its contribution to the European literary tradition.

In Spanish. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

423 Ad Hoc Seminar *Not offered in 1992-93*
A subject chosen by the instructor in consultation with the students. Topics could treat a specific author, a movement or school, or a cultural, historical or philosophical movement of literary importance.
In Spanish. Three credits.

499	Senior Thesis	<i>Fall and Spring</i>
<p>Permits the student to gain academic credit for work done outside regularly scheduled courses. The course may be based on research, directed readings or special internship programs (when available). A plan of study must be submitted and approved prior to enrollment.</p> <p><i>Prerequisite: Eighteen hours of earned credit in Spanish, permission of instructor, department chair, and Dean of the Undergraduate College. Two credits.</i></p>		

110	Introduction to German	<i>Fall</i>
An intensive course, for beginners and students with limited preparation, designed to develop proficiency in the basic language skills.		
<i>Five credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.</i>		

210	Intermediate German	<i>Spring</i>
<p>An intensive course offering practice in conversation, grammar review, reading and composition. Course material will be based on various aspects of German culture, including literature.</p> <p><i>Five credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.</i></p>		

309 Survey of German Literature *Not offered in 1992-93*
Examines representative works in drama, lyric poetry and the novel, from Romanticism to Expressionism. Students may read works by Hesse, Kafka, Mann, Brecht.
In English. Three credits. LITERARY LIBERAL STUDIES REQUIREMENT.

110	Introduction to Italian	<i>Fall</i>
<p>An intensive course, for beginners and students with limited preparation, designed to develop proficiency in the basic language skills.</p> <p><i>Five credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.</i></p>		

210 Intermediate Italian

Fall and Spring

An intensive course offering practice in conversation, grammar review, reading and composition. Course material will be based on various aspects of Italian culture, including literature.

Five credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.

309 Topics in Italian Culture

Fall

An introduction to the major contributions of Italy to western culture, in art and music, through the centuries. May be repeated barring duplication of materials.

In English. Three credits. Applied Foreign Language Component (one credit) available in Italian. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

311 Readings in Italian Literature

Not offered in 1992-93

Covers the main trends and major writers in Italian literature from Boccaccio to Moravia.

In English. Three credits. Applied Foreign Language Component (one credit) available in Italian. LITERARY LIBERAL STUDIES REQUIREMENT.

315 Italian Cinema

Spring

A survey of Italian film from silent movies through Rossellini and De Sica to Fellini. The course will examine approximately ten films, emphasizing student participation in discussion and special reports.

In English. Three credits. Applied Foreign Language Component (one credit) available in Italian.

JAPANESE

110 Introduction to Japanese

Fall

A basic course in Japanese language and culture study designed to help students develop familiarity with the Japanese language and to enhance appreciation and understanding of modern-day Japan.

Five credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.

210 Intermediate Japanese

Fall and Spring

An intensive course offering practice in conversation, grammar review, reading and composition. Course material will be based on various aspects of Japanese culture.

Five credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.

311 The Culture of Japan
(see Humanities 311)

Not offered in 1992-93

Begins with a brief overview of Japanese geography and history. It then charts the course, the character, and the expressions of Japanese culture from the simple hunting and fishing communities of pre-history to the present day. Such cultural expressions as the Shinto creation myths, haiku poetry, ancient and modern literature, music, flower arrangement and the Tea Ceremony will be included. Japanese religions will also be studied, both as products of their cultural epochs and as shapers of the Japanese world-view and sense of beauty.

Three credits. INTERDISCIPLINARY AND GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

RUSSIAN

REQUIRED FOR THE RUSSIAN MINOR:

A minimum of 20 credits consisting of:

RU110 Introduction to Russian (5 credits) [may be waived if the student qualifies for RU210]

RU210 Intermediate Russian (5 credits)

RU315 Topics in Russian Culture II (3 or 4 credits)

AND any of the following:

RU309 Readings in Russian Literature I (3 or 4 credits)

RU311 Readings in Russian Literature II (3 or 4 credits)

RU313 Topics in Russian Culture I (3 or 4 credits)

PO211 Foreign Policy of the USSR (3 credits)

110 Introduction to Russian

Fall

An intensive course, for beginners and students with limited preparation, designed to develop proficiency in Russian conversation, reading and grammar.

Five credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.

210 Intermediate Russian

Fall and Spring

An intensive course offering practice in conversation and reading. It incorporates the study of Russian civilization and its contributions to world civilization.

Five credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.

309 Readings in Russian Literature I

Not offered in 1992-93

A survey of Russian literature from its origins to 1917 with an emphasis on major writers of the 19th and early 20th centuries (e.g. Pushkin, Turgenev, Tolstoy, Dostoevsky, Chekhov).

In English. Three credits. Applied Foreign Language Component (one credit) available in Russian. LITERARY LIBERAL STUDIES REQUIREMENT.

311 Readings in Russian Literature II

Not offered in 1992-93

A survey of Russian literature from 1917 to the present. Emphasis on major writers of the period (e.g. Mayakovsky, Pasternak, Bulgakov, Solzhenitsyn).

In English. Three credits. Applied Foreign Language Component (one credit) available in Russian. LITERARY LIBERAL STUDIES REQUIREMENT.

313 Topics in Russian Culture I

Not offered in 1992-93

Surveys Russian culture and civilization from the ninth century to the Revolution of 1917. Students are introduced to the cultural tradition of Russia with special attention to the fine arts, religion, philosophy and life-style.

In English. Three credits. Applied Foreign Language Component (one credit) available in Russian. INTERDISCIPLINARY AND GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

315 Topics in Russian Culture II

Spring

A survey of Russian culture and civilization from the 1917 Revolution to the present. Emphasis is given to the changes occurring as a result of the 1917 Revolution. Contemporary Russian society will be examined.

In English. Three credits. Applied Foreign Language Component (one credit) available in Russian. INTERDISCIPLINARY AND GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

DEPARTMENT OF PHILOSOPHY

DR. PETER TUMULTY, *CHAIR*; CASE, HANAGAN, IZZI, VANDERWEEL, ZENO.

Philosophy has always been considered as the endeavor of the human person to escape from ignorance and to investigate the meaning of nature, of self, and of reality as a whole. Of course, philosophy is not alone in wanting to escape from ignorance; other disciplines, natural, social and literary, share that desire. But philosophy attempts to take a broader view, and for over two millennia philosophers have sought the type of understanding which leads to wisdom. Their ideas have become the very roots of the great social, political, educational, economic, literary, and scientific movements of every age. Thus, philosophy includes as one of its tasks a consideration of the presuppositions of other academic disciplines. This is why it is viewed as an essential component of a truly liberal education. Then, too, in a Christian context, philosophy cannot ignore the perspective it receives from faith, nor the part it can play in the understanding of God's revelation.

All students at Saint Michael's College are required to take two basic courses in philosophy to enable them to meet with these fundamental questions and to see how great thinkers of the past have responded to them. The first course (Philosophy 103) introduces students to some basic philosophical issues with the help of Plato's *Republic* and other philosophical texts. After completing Philosophy 103, the student can choose the second course from Philosophy of Human Nature (Philosophy 201), Ethics (Philosophy 203), or Philosophy of Society (Philosophy 213).

For those students who wish to deepen their knowledge of the subject, electives are offered to acquaint them with the history, development, methods, and content of nearly the entire range of philosophy.

REQUIRED FOR THE PHILOSOPHY MAJOR:

AND CHOOSE one of the three Philosophy 200 courses:

PH201 Philosophy of Human Nature (3 credits)

PH203 Ethics (3 credits)

PH205 Philosophy of Society (3 credits)

PH103 Introduction to Philosophy (3 credits)

IN ADDITION, CHOOSE three History of Philosophy courses from the following :

- PH301 Ancient Greek Philosophy (4 credits)
- PH303 Medieval Philosophy (4 credits)
- PH305 Philosophy in 17th and 18th Centuries (4 credits)
- PH307 19th-Century Philosophy (4 credits)
- PH309* 20th-Century Philosophy (4 credits)
- *May be replaced (under conditions) with:
- PH311 Existentialism (4 credits)
- PH315 Philosophical Hermeneutics (4 credits)
- PH319 American Philosophy (4 credits)

PH401 Metaphysics (4 credits)

Two Philosophical Authors/Texts (PH405 to 445), 8 credits

PH455 Senior Seminar (4 credits)

Language Requirement: Competency at the 200 level (Intermediate) in Ancient Greek or Latin, German, French or Spanish.

General Course Prerequisites:

200 level courses must be preceded by 103.

300 level courses must be preceded by one 200 level course.

400 level courses must be preceded by one 300 level course.

REQUIRED FOR THE PHILOSOPHY MINOR

PH103 Introduction to Philosophy (3 credits)

AND CHOOSE one of three 200 level courses (3 credits)

Two History of Philosophy courses (total of 8 credits)

One Philosophical Authors/Texts (4 credits)

One Philosophy elective (3 or 4 credits)

101 Logic of Argumentation

Spring

Develops and sharpens the student's ability to recognize and evaluate the types of explanations and arguments that can be found in everyday discourse and in the written and oral presentations of various academic disciplines.

Three credits. COMMUNICATION SKILLS LIBERAL STUDIES REQUIREMENT.

103 Introduction to Philosophical Problems

Fall and Spring

Examines the nature and value of philosophical inquiry by means of Plato's *Republic* and other philosophical texts.

Three credits. REQUIRED OF ALL STUDENTS. PHILOSOPHY LIBERAL STUDIES REQUIREMENT.

201 Philosophy of Human Nature

Fall and Spring

A philosophical study of human nature, considering: the human body, knowledge, desire, choice and action, the emotions, and freedom of choice.

Prerequisite: Philosophy 103. Three credits. PHILOSOPHY LIBERAL STUDIES REQUIREMENT.

203 Ethics

Spring

Examines the criteria for discovering, judging, and living a moral life. Consideration is given to the contributions which the great philosophers have made to the questions of norms, values, and the meaning and nature of ethical discourse.

Prerequisite: Philosophy 103. Three credits. PHILOSOPHY LIBERAL STUDIES REQUIREMENT.

205 Philosophy of Society

Spring

An examination of human society concentrating on the distinct methodology of social and political philosophy. The course focuses on the finality of the social order (Common Good), the social nature of persons, justice and friendship, civil authority, the family, the community of nations, and problems of church and state.

Prerequisite: Philosophy 103. Three credits. PHILOSOPHY LIBERAL STUDIES REQUIREMENT.

301 Ancient Greek Philosophy

Fall

A study of the principal figures of early Greek Philosophy, from the sixth to the third centuries, B.C. A brief consideration of the period from Thales to Socrates leads to a more detailed study of Plato and Aristotle.

Four credits.

303 Medieval Philosophy

Not offered in 1992-93

A study of the major thinkers of Christianity, Judaism, and Islam, and their attempts to use Greek categories in order to understand the world, themselves, and God. This historical period ranges from the 4th to the 14th centuries, and studies such figures as Augustine, Anselm, Averroës, Maimonides, and Thomas Aquinas.

Three credits.

305 Philosophy in the 17th and 18th Centuries

Fall

Considers the development of philosophical thought from the Renaissance through the 18th century. Class readings and discussion center on such major figures as Descartes, Spinoza, Locke, Hume and Kant.

Four credits.

307 Nineteenth-Century Philosophy

Spring

Considers the development of philosophic thought during the 19th century. Class readings and discussions center on such major figures as Hegel, Marx, Nietzsche, Kierkegaard, and John Stuart Mill.

Prerequisite: It is strongly recommended that students take Philosophy 305 prior to this course. Four credits.

- 309 Twentieth-Century Philosophy** *Not offered in 1992-93*
 Considers major philosophic trends since the start of this century. Class readings and discussions center on such figures as Husserl, Heidegger, Sartre, Russell, and Wittgenstein.
Prerequisite: It is very strongly recommended that students take Philosophy 307 prior to this course. Three credits.
- 311 Existentialism** *Not offered in 1992-93*
 Considers representative figures of theistic and non-theistic philosophical existentialism, such as Kierkegaard, Jaspers, Heidegger, Marcel, Sartre and Buber.
Three credits.
- 315 Philosophical Hermeneutics** *Not offered in 1992-93*
 Hermeneutics can be defined loosely as the philosophy of the interpretation of meaning. It studies the conditions for the discovery, creation, maintenance, evaluation and/or systematic distortion of meaning. It has recently emerged as a central topic in the study of human nature, the philosophy of the social sciences, the philosophy of art and language, and in literary criticism. Selections from the works of Gadamer, Ricoeur, Habermas, and Apel will constitute a major portion of the readings, but material will be drawn also from critics such as the deconstructionist Derrida.
Three credits.
- 319 American Philosophy** *Fall*
 Depending on the background of the students, this course will be either a historical survey of significant American thinkers from Jonathan Edwards to John Dewey, or a concentrated study of selected American philosophers drawn from both the "classical" and contemporary periods.
Four credits.
- 327 Philosophy of Freedom** *Not offered in 1992-93*
 A philosophical examination of the purpose and nature of human freedom. Various types of freedom will be investigated. The problems of free choice will be studied against the historical background of those who claim that free choice is absurd or impossible. The value of freedom will be measured in terms of the dignity of human life in relation to God.
Three credits.
- 329 Philosophy of History** *Not offered in 1992-93*
 An introduction to ancient, medieval, modern and contemporary philosophical approaches to history, centering on the question of whether or not history is a science.
Three credits.

331 Philosophy of Art

Not offered in 1992-93

Considers the meaning of a philosophical approach to the whole range of making. This includes an investigation of what productive action is, the nature of artistic knowledge, the reality of artifacts, the definition of beauty, and distinctions between fine and useful arts.

Three credits.

333 Philosophy of Law

Not offered in 1992-93

An introduction to the meaning of law and the various forms of law: civil, natural, and divine; the evolution of law, when laws are legitimate; and the relationship between morality and law.

Three credits.

337 Philosophy of Love

Fall

A philosophical examination of the experience of love. The course seeks an understanding of the various elements and dimensions of the reality of love and to order all of them for a synthetic grasp of the meaning and worth of different types of love. Major thinkers will be consulted and the students themselves will have the opportunity to prepare and present papers in areas of their own selection.

Three credits.

351 Modes of Knowing

Spring

A philosophical investigation of the different types of human knowledge: common sense, the sciences, humanistic understanding, history, mathematics, wisdom, arts. The study will include historical developments, questions about truth, certainty, and the integration of these modes in terms of purpose, education, and human happiness.

Four credits.

353 Non-Western Philosophy

Spring

An introduction to a number of philosophical ideas, issues and debates as they have developed in non-Western cultures. Where it would benefit understanding, explicit comparisons with Western ideals will be made. Attention will also be paid to philosophical exchanges among the various cultures.

Four credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

401 Metaphysics

Fall

Considers the ultimate principles and the common characteristics of reality as well as the presuppositions and methods necessary for a philosophical treatment of such topics.

Four credits.

405-445 Philosophical Authors/Texts**Fall and Spring**

Allows students to devote themselves to an in-depth study of a major philosopher or philosophical work:

PH405	Kierkegaard	Fall
PH407	Loneragan	Spring
PH409	Aquinas	Spring

Four credits.

455 Senior Research Seminar in Philosophy**Fall**

The coordinating seminar centers on a chosen topic — one specific philosophical area, problem, and/or thinker, and examines it in the light of the conceptual and historical currents which contribute to it.

Open to juniors with permission of instructor. Four credits.

DEPARTMENT OF PHYSICS

DR. DOMINIQUE CASAVANT, *CHAIR*; EVANS, FOLEY, ROSS.

Physics concerns itself with the deduction and establishment of the principles which underlie the observable phenomena of the physical universe. For students whose curiosity about physical phenomena guides them to a career in physics, the Physics Department offers courses to prepare them for graduate school, teaching, or industry. Other students interested in science will find that courses offered above the elementary level enrich erudition in their own concentrations.

Mathematics is the language of physics. Students must have a mathematical ability commensurate with the physics content of the course if they expect to master the material. Students who plan to attend graduate school should bear in mind that familiarity with a foreign language may be required.

REQUIRED FOR THE PHYSICS MAJOR:

PY151	Electronics (4 credits)
PY210	College Physics (4 credits)
PY212	College Physics (4 credits)
PY301	Intro. to Modern Physics (3 credits)
PY303	Intro. to Modern Physics (3 credits)
PY307	Mechanics (3 credits)
PY309	Thermodynamics (3 credits)
PY313	Optics (3 credits)
PY401	Electricity & Magnetism (3 credits)
PY405	Advanced Laboratory (3 credits)
PY407	Advanced Laboratory (3 credits)
PY410	Coordinating Seminar I (3 credits)
PY410	Coordinating Seminar II (3 credits)

AND CHOOSE EITHER:

PY310	Special Topics (3 credits) OR
PY101	Astronomy (3 credits)
AND	
CH105	Stoichiometry (5 credits)
CH109	Chemical Bonding & Energies (5 credits)
CS101	Computer Programming I (4 credits)
MA109	Calculus I (4 credits)
MA111	Calculus II (4 credits)
MA211	Calculus III (4 credits)
MA303	Differential Equations (3 credits)

Strongly Recommended:

MA309	Linear Algebra
MA317	Applied Mathematics
MA401	Real Analysis I
MA403	Real Analysis II
MA405	Complex Analysis

REQUIRED FOR THE PHYSICS MINOR:

PY210	College Physics (4 credits)
PY212	College Physics (4 credits)
PY301	Intro. to Modern Physics (3 credits)
PY303	Intro. to Modern Physics (3 credits)

AND CHOOSE one additional advanced Physics course

101 Astronomy

Fall and Spring

Astronomy is the oldest of the physical sciences and one of the most influential in the cultures of man. The course considers historical astronomy, astronomers' tools, the solar system, stars, galaxies, and cosmology.

Three credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

103 Acoustical Foundations of Music

Spring

Presents non-science students an opportunity to see physical principles applied to an area usually considered non-science. Laboratory exercises allow students to experience what is being discussed.

May be used as science or fine arts credit but not both. Three credits.

105 Physics at a Glance

Fall and Spring

Examines some of the intriguing phenomena that are part of our everyday world.

Three credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

131 Energy for a Technological Society

Not offered in 1992-93

Acquaints the non-scientist with the role that energy plays in a technological society. A survey is made of the level and growth rate of energy use. The course develops the basic laws of physics to quantify the implications of current energy use on our natural resources. Finally, several modern technologies are reviewed to acquaint students with the meaning, advantages and risks of such technologies in today's society.

Three credits. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

**141 Physics for the
Elementary School Teacher**

Spring

Presents to the prospective elementary school teacher a series of experiments and hands-on experiences relevant to physics that can be used directly at the elementary school level. Based on the *Operation Physics* program.

Four credits.

151 Electronics

Fall

An introduction to the theory, analysis, and operation of electronic devices and circuits. In the laboratory portion of the course students not only analyze the various circuits and devices described in class, but gain a practical knowledge of the use of tools and test equipment (multi-meter, signal generator, oscilloscope, etc.).

Prerequisites: knowledge of algebra and trigonometry. Four credits.

153 Electronics

Not offered in 1992-93

Considers topics such as frequency response of, and distortion in, actual amplifier circuits, design consideration for high frequency circuits, feedback, and digital circuits. The laboratory work will reinforce the concepts developed in class and the mathematical treatment will be similar to that of Physics 151.

Prerequisite: Physics 151 or permission of instructor. Four credits.

210-212 College Physics

Two semesters

Develops the concepts of physics with a mathematical sophistication to challenge students with an interest in the physical sciences. The catholicity of physics is emphasized in a study of mechanics, thermodynamics, electricity and magnetism, optics and modern physics.

Prerequisites: a one-semester course in calculus (Mathematics 103 or equivalent), with a grade of C or better. Successful completion of Physics 210 is required in order to take Physics 212. Four credits each semester. NATURAL AND MATHEMATICAL SCIENCES LIBERAL STUDIES REQUIREMENT.

220-222 Physics for Biologists

Two semesters

Similar to 210-212, with some exceptions. Math is somewhat de-emphasized, though a working knowledge of calculus is still expected. Emphasis is placed on the application of physics to living things, and on the instruments using physics principles that are applicable to living organisms. The course also covers certain topics in Modern Physics, such as radioactivity.

Prerequisites: a one-semester course in calculus (Mathematics 103 or equivalent), with a grade of C or better. Successful completion of Physics 220 is required in order to take Physics 222. Four credits each semester.

**301-303 Introduction to
Modern Physics**

Alternate years

Focuses on recent developments in the field of physics. It includes some of the concepts of special relativity and quantum mechanics and applies these concepts, as well as the classical concepts, to atomic, nuclear, molecular, and crystal structure.

Prerequisites: Physics 210-212, Mathematics 211. Three credits.

307 Mechanics

Fall

Alternate years

Familiarizes students with sophisticated tools to analyze motion, and to provide some insight into the agents of change in motion. The motion of particles and solids is studied with the intent of preparing students to appreciate the application of the principles to the worlds of super-macroscopic and sub-microscopic.

Prerequisites: Physics 210-212, Mathematics 211, Co-requisite: Mathematics 303. Three credits.

309 Thermodynamics

Fall

Alternate years

The laws of thermodynamics have the widest application of any laws of physics. This course familiarizes the student with these laws as they apply to systems in equilibrium. Heat transport mechanisms, heat engines, the behavior of ideal and real gases are all examined, with some applications of classical statistical mechanics.

Prerequisites: Physics 210-212, Mathematics 211. Three credits.

**310 Special Topics
in Physics**

Not offered in 1992-93

Offered when the need and demand for specialized instruction arises. May be repeated with the approval of the department.

Credit not to exceed four.

313 Optics

Spring

Alternate years

Reveals the physical and mathematical beauty of optics in its investigations of the wave nature of light. Other aspects of electromagnetic radiation and the beginnings of modern physics will be introduced.

Prerequisites: Physics 210-212, 401. Three credits.

401 Electricity and Magnetism

Fall

Alternate years

An advanced undergraduate treatment of electric and magnetic fields, leading to Maxwell's equations and the wave equation.

Prerequisites: Physics 210-212, Mathematics 211, Co-requisite: Mathematics 303. Three credits.

405-407 Advanced Laboratory*Spring*

Experiments selected from mechanics, thermodynamics, electricity and magnetism, optics and modern physics. Students may perform experiments of their choosing if they have a special interest in one particular branch of physics.

Prerequisites: Physics 301, 307, 309, 313 and 401. Co-requisite: Physics 303, 313. Three credits each semester.

410 Coordinating Seminar*Two semesters*

Three credits each semester.

DEPARTMENT OF POLITICAL SCIENCE

DR. JOHN C. HUGHES, *CHAIR*; CHRISTY, GROVER, OLGAY, WILSON.

Political science is the study of how humans live collectively--how individuals organize themselves into social structures and how they make decisions concerning their common destiny. As students of politics, we seek to understand the structures and processes of government on both the local and the national levels, as well as the relations among nations on the world stage. Our focus, however, is broader than the formal institutions of government. Many social entities outside of government--including interest groups, corporations, media and even other nations--influence the allocation of values and goods in a society. Hence, civil and economic organizations are also within the purview of political science. Finally, because politics is an inherently moral enterprise, we are concerned not only with how societies are governed, but also with how they ought to be governed.

The Political Science Department offers both a major and a minor in political science. Both are designed to expose the student to the four subfields of political science: American politics, international politics, comparative politics, and political theory. The goal of the Political Science Department is to prepare students for the demands of active citizenship, in all its facets. Upon graduation, political science majors enter a variety of fields, including business, law, education, journalism and public service.

REQUIRED FOR THE POLITICAL SCIENCE MAJOR:

- PO101 Introduction to Politics (3 credits)
- PO103 Research Methods and Methodology (3 credits)
- PO201 American National Politics (4 credits)
- PO221 International Politics (3 credits)
- PO341 Western Political Thought (3 credits)
- PO410 Senior Seminar (4 credits)
- EN101 College Writing (4 credits)

AND CHOOSE any four Political Science electives

IN ADDITION, CHOOSE 12 credits from among the sibling disciplines of Anthropology, Economics, Geography, History, Psychology or Sociology.

REQUIRED FOR THE POLITICAL SCIENCE MINOR:

- PO201 American National Politics (3 or 4 credits)
- PO221 International Politics (3 credits)
- PO341 Western Political Thought (3 credits)

AND CHOOSE any three elective courses in the Political Science Department.

101 Introduction to Politics *Fall and Spring*

An introduction to the basic concepts of politics and the tools of political analysis.

Three credits. SOCIAL SCIENCE LIBERAL STUDIES REQUIREMENT.

103 Research Methods and Methodology *Spring*

Familiarizes the student with various methodological issues that shape current research in political science. The course will also explore some of the basic skills used by social scientists in gathering, analyzing and interpreting data.

Three credits.

**201 Introduction to American
National Politics *Fall and Spring***

A general introduction to the structure and processes that define American politics on the national level.

Majors should take Section A or B, which carry 4 credits; other sections carry 3 credits. SOCIAL SCIENCE LIBERAL STUDIES REQUIREMENT.

203 American Foreign Policy *Fall*

An introduction to the nature, objectives, and practices of the foreign policy of the United States.

Three credits.

205 Comparative Politics *Spring*

An introductory examination of the nature of comparative political analysis. Following a general examination, the course will study politics and government in three societies sharing the idea of parliamentary democracy but shaped by fundamentally different histories and cultures: Canada, India and Japan.

Three credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

**207 Political Parties and
Pressure Groups *Not offered in 1992-93***

A study of the policy-making process in American government, of public opinion, political parties, and pressure groups as agencies of policy formation.

Three credits.

211 Foreign Policy of the USSR *Spring*

An analytical and historical survey of the developments of the foreign policy of the Soviet Union from 1917 through 1991, including contemporary developments in the transformation of the Soviet Union.

Three credits.

221 International Politics *Not offered in 1992-93*

An introductory examination of international relations with primary focus upon the political relationship among nations.

Three credits.

- 251 State and Local Government** *Fall*
 A study of the political, administrative, and fiscal dimensions of state and local government in the United States, their impact on policy formation and implementation, and intergovernmental relations.
Three credits.
- 301 American Constitutional Law** *Fall*
 An analysis of American constitutional theory as it has been developed and articulated by the U.S. Supreme Court, and others. Specific topics include the nature of judicial review, the powers of the President and Congress, American Constitutionalism and the development of substantive due process.
Four credits.
- 305 Civil Liberties** *Spring*
 A study of the constitutional relationship between the individual and the government. Particular emphasis will be placed on First Amendment freedoms of speech, press, and religious belief, as well as theories of equal protection of the law.
Four credits.
- 306 The American Presidency** *Not offered in 1992-93*
 An historical and analytical examination of the most powerful elective office in the world. The course will focus on the growth of presidential power and responsibilities, the use and abuse of executive power, and the political and economic forces that shape and constrain the office.
Three credits.
- 307 Congress and the Policy Process** *Spring*
 An introduction to the U.S. Congress which places great emphasis on the relationships between the institution and the political and structural variables that shape policy-making at the congressional level.
Three credits.
- 308 Judicial Process** *Fall*
 An examination of the judiciary as participant in the public policy-making process, paying particular attention to the federal court system as it interacts with other centers of political power.
Three credits.
- 309 Introduction to Political Economy** *Not offered in 1992-93*
 An introductory exploration of political economy as a method of analysis which integrates politics, economics, and social life into a single framework. Special attention is given to the relationship between democracy and capitalism, the transformation of the American labor market, and implications for both domestic and foreign policy.
Four credits.

- 311 International Law** *Not offered in 1992-93*
A survey of the law of nations dealing with the origin, sources, scope and subjects of the law, and the law of interstate transactions.
Three credits.
- 315 Third World Politics** *Not offered in 1992-93*
An examination of the nature of government and politics in non-Western areas. In particular, the course focuses on the emergence of colonial societies into political independence and the nature of their domestic and international political life.
Three credits.
- 323 Global Politics** *Not offered in 1992-93*
An examination of contemporary trends in international relations analysis with emphasis on the international political economy, international organization, and non-state actors.
Three credits.
- 324 Environmental Politics** *Fall*
Examines the political dimensions of humankind's relationship to the natural environment. Emphasis will be placed on the problems of pollution and natural resource use in the United States.
Three credits.
- 331 Government and Politics in Western Europe** *Fall*
A survey of the development of governmental institutions and political processes in Western Europe.
Three credits.
- 333 Government and Politics in Eastern Europe** *Not offered in 1992-93*
A survey of the development of governmental institutions and political processes in Eastern Europe.
Three credits.
- 337 Government and Politics in East Asia** *Spring*
A survey of the development of governmental institutions and political processes in China and Japan.
Three credits.
- 341 History of Western Political Thought** *Fall and Spring*
A study of the most important political theorists of western civilization.
Three credits.

353 Presidential Elections *Fall*
 (see also History 353)

An examination of presidential elections. Topics include the nomination and general election "rules of the game"; campaign finance and political action committees; advertising and news coverage; managing candidates and campaigns. (To be taught only during Presidential election years with an instructor from the History Department).

Four credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

403 American Political Thought *Not offered in 1992-93*

An examination of the writings, speeches, and documents that evidence the clearest reflection about American politics.

Three credits.

410 Senior Seminar in Political Science *Fall*

Designed for small group and independent study techniques. Individual instructors will determine the direction of inquiry.

Reserved for Political Science majors. Four credits.

417 Modern Totalitarianism *Not offered in 1992-93*

Combining a historical and conceptual analysis, the course will search for the fundamental causes and essential nature of modern totalitarian movements.

Three credits.

422 American Political Behavior *Not offered in 1992-93*

Focuses on political inputs into the American political system. Consideration is given to variables that govern the behavior patterns of the American electorate.

Three credits.

425 Politics and Literature *Not offered in 1992-93*
 (See English 425)

An interdisciplinary examination of how the study of politics and the study of literature can interrelate and enhance each other. The thematic focus in recent years has been the Vietnam War. (Taught with an instructor from the English Department.)

Four credits. INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

433 The Criminal Justice System *Fall*

An analysis of the various agencies involved with the administration of criminal justice. Topics include the definition of criminal behavior, pre-trial procedure, the adversary trial process, and the imposition of punishment. Attention will also be given to the judicial supervision of the rights of the accused.

Four credits.

DEPARTMENT OF PSYCHOLOGY

DR. BARRY KRIKSTONE, *CHAIR*; ADAMS, LAIPPLE, LAVALLEE, AND MILLER.

Psychology is concerned with the discovery of principles underlying human and animal behavior. Students electing to major in Psychology will be thoroughly prepared to enter graduate school in any of the major fields of Psychology or related disciplines. Students will also find Psychology an excellent preparation for pursuing a wide variety of careers open to liberal arts graduates requiring a basic understanding of human behavior.

The Psychology major consists of eleven courses. The student may choose from the three tracks which have been designed to accommodate the different interests and career goals of the profession. The BASIC track offers a liberal arts education in Psychology and teaches the student to think critically about psychological issues. The GENERAL-EXPERIMENTAL track prepares the student for a research-oriented graduate program in Psychology. The SOCIAL SERVICES track prepares the student for graduate programs emphasizing human services occupations.

REQUIRED FOR THE PSYCHOLOGY MAJOR:

- PS101 General Psychology (3 credits)
- PS213 Research Methods I (3 credits)
- PS215 Research Methods II (4 credits)
- PS401 History of Psychology (3 credits)

AND CHOOSE one from:

- PS308 Psychology of Learning (4 credits)
- PS309 Physiological Psychology (4 credits)
- PS331 Cognitive Psychology (3 credits)

IN ADDITION, CHOOSE one from:

- PS205 Developmental Psychology (3 credits)
- PS220 Social Psychology (3 credits)
- PS313 Theories of Personality (3 credits)

Five additional Psychology courses appropriate to the student's chosen track.

101 **General Psychology**

Fall and Spring

An introduction to the field of psychology, with emphasis on the normal adult human being, and on the diversity of views represented in the field.

Three credits. SOCIAL SCIENCE LIBERAL STUDIES REQUIREMENT.

203 **Behavior Modification**

Spring

A survey of techniques in the management and control of behavior, with an evaluation of their effectiveness.

Prerequisite: Psychology 101. Three credits.

205 **Developmental Psychology**

Fall and Spring

An introduction to the basic principles of human growth and development. Topics include a history of the field, research methods, genetic and environmental

determinants of behavior, prenatal development, the development of language, intelligence and personality.

Prerequisite: Psychology 101. Three credits.

213 Research Methods I (3 credits)

Fall and Spring

An integrated presentation of research methodology and data analysis techniques used in contemporary psychological research. The course is designed to provide the tools necessary to understand and evaluate the research literature of Psychology and related disciplines and to conduct sound research projects.

Prerequisite: Psychology 101. Three credits.

215 Research Methods II (4 credits)

Fall and Spring

A continuation of Psychology 213, includes a two-hour laboratory each week where students will conduct exercises in learning, memory, psychophysics and perception. A written formal laboratory report will be required each week.

Prerequisite: Psychology 101 and 213. Four credits.

220 Social Psychology

Fall

A survey of the methods and concepts used in the study of individuals in groups. Topics include attitude and attitude change, prejudice, social conflict, aggression, helping behavior, group dynamics, and organizations.

Prerequisite: Psychology 101. Three credits.

225 Abnormal Psychology

Fall and Spring

The origin, characteristics and treatment of the behavior disorders, including minor adjustment problems, substance abuse disorders, and major disorders like schizophrenia.

Prerequisite: Psychology 101. Three credits.

231 Perception

Fall

An introduction to sensation and perception in both humans and selected animal groups. All major perceptual systems will be included, but emphasis will be given to visual and auditory perception. An information-processing point of view will be used to provide continuity. Demonstrations of basic visual and auditory phenomena will be integrated into the lectures.

Prerequisite: Psychology 101. Three credits.

301 Psychology of Religion

Fall

Covers both historical and current psychological approaches to the study of religious thought and behavior. Research and theory concerning topics such as the nature of the religious experience, the conversion process, and the religious personality will be discussed.

Prerequisite: Psychology 101 and one 200 level Psychology course. Three credits.

305 Ethical Issues in Psychology

Spring

Following an overview of the field of ethics and psychology, selected issues such as informed consent, deception, harm, privacy and confidentiality, the use of humans in

research, and the duty to warn will be discussed and applied to the psychologist as teacher, practitioner, and social researcher.

Prerequisite: Psychology 215. Three credits.

308 Psychology of Learning *Spring*

A survey of the field of animal learning with historical and current material covering the areas of classical and operant conditioning, the parameters of reinforcement, generalization and discrimination, transfer of training and extinction. A laboratory experience includes working with animals in operant chambers.

Prerequisite: Psychology 215. Four credits.

309 Physiological Psychology *Fall*

A survey of basic human neuroanatomy, neurophysiology, and endocrinology, followed by investigations into the areas of sleep, hunger, thirst, sexual behavior, learning and reinforcement and emotional disorders. A laboratory experience includes exercises correlated with the lecture content.

Prerequisite: Psychology 215. Four credits.

313 Personality *Spring*

A survey of major theories of personality.

Prerequisite: Psychology 101 and one 200 level course in Psychology. Three credits.

321 Psychological Assessment *Fall*

An introduction to psychological measurement as a standardized method of obtaining information about individuals. The course is designed to provide the student with a firm background in ability, interest and personality assessment. Students will take and evaluate a variety of tests.

Prerequisites: Psychology 215 and junior/senior standing. Three credits.

331 Cognitive Psychology *Fall*

A general introduction to theories and research in the areas of human learning, memory, language, and problem solving.

Prerequisite: Psychology 215. Three credits.

335 Industrial/Organizational Psychology *Spring*

A survey of theory, research, and applications of industrial/organizational psychology. The course will examine factors that influence organizations. Topics will include open systems theory, motivation, satisfaction, personnel selection, group processes, and improving organizational effectiveness.

Prerequisite: Psychology 215. Three credits.

401 History of Psychology *Fall*

A historical introduction to modern psychology emphasizing the last one hundred years. The philosophical and social background of modern psychology will also be discussed.

Prerequisite: Psychology 215 and junior/senior standing. Three credits.

403 Drugs and Behavior**Fall**

A survey of basic drug effects on behavior. Topics include pharmacological basis of drug action, drugs used as psychotropic agents, drugs that are in common usage, and drugs of abuse.

Prerequisite: Psychology 101. Three credits.

406,408 Senior Research**Fall and Spring**

For qualified seniors interested in experimental, field or library research in a topic to be jointly agreed upon by the student and the faculty sponsor.

Prerequisites: Senior standing and permission of the department chair. Meetings and credit to be arranged.

410 Senior Seminar**Spring**

A review and discussion of current topics in psychology. Students will be expected to do independent reading in professional journals on a topic of their choice, prepare a group presentation of this topic, and evaluate the topic in a written thesis.

Prerequisites: Senior standing and permission of instructor. Three credits.

DEPARTMENT OF RELIGIOUS STUDIES

REV. RICHARD BERUBE, S.S.E., CHAIR; COUTURE, KROGER, MAHONEY, McLAUGHLIN, TRUMBOWER, WEBSTER; LECTURERS: WALL, WARD.

In keeping with the mission of Saint Michael's as a Catholic liberal arts college, courses in Religious Studies examine systematically the foundations, development, meaning, and cultural relevance of the Christian tradition. Religious Studies courses also encourage students to investigate other religious traditions, such as Judaism, Islam, Hinduism, and Buddhism. Finally, these studies contribute to one's understanding of human culture and, thus, of oneself; an understanding of religion and its historical significance is essential for an education which claims to be liberal. The skills of understanding and critical thinking developed in Religious Studies can serve as preparation for graduate studies, careers in teaching or a variety of Christian ministries, or for any number of career choices building upon a solid liberal arts foundation.

REQUIRED FOR THE RELIGIOUS STUDIES MAJOR:

RS110 Introduction to New Testament (3 credits)

RS210 Introduction to Old Testament (3 credits)

RS410 Religious Studies Seminar (4 credits)

AND CHOOSE four additional courses from the 200 level.

IN ADDITION, CHOOSE three courses from the 300 level, at least one in the area of Christian studies and one in a religious tradition other than Christianity.

A Religious Studies major may take a 3-credit RS 300 course

for 4 credits provided that:

1. The course has the prerequisites of an RS 100 and an RS 200 course, and
2. The instructor provides the student with the equivalent of an additional class hour each week for further discussion of the standard course reading assignments and lecture

material and to discuss additional readings assigned to supplement the standard syllabus.

3. In addition to these supplemental readings, the student will be required to complete a research project. If a research project is already assigned in the standard syllabus, the student taking the course for four credits will be expected either to complete an additional project or an enhanced form of the standard one.
4. A student wishing to take the course for four credits must arrange to do so before the end of the drop/add period at the beginning of the semester.

Religious Studies majors must demonstrate an intermediate level of proficiency in a modern foreign language or a two-semester equivalency in a classical language.

REQUIRED FOR THE RELIGIOUS STUDIES MINOR:

RS110 Introduction to the New Testament (3 credits) **OR**

RS120 Introduction to Christianity (3 credits) **OR**

RS130 Models of Christianity (3 credits)

AND CHOOSE two 200 level courses.

IN ADDITION, CHOOSE two 300 level courses, one of which must be in a religious tradition other than Christianity.

RS410 Religious Studies Seminar (4 credits)

A Religious Studies minor may take a 3-credit RS 300 level course for 4 credits as described above for the major.

110 Introduction to the New Testament

Fall and Spring

The historical, social and religious background of the first century; a survey of New Testament literature especially of the Gospels and Epistles; the life of Jesus of Nazareth.

Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

120 Introduction to Christianity

Fall and Spring

A discussion of the Christian creed, its foundations, meaning, and implications for Christian life, as interpreted by representative contemporary Catholic theologians.

Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

130 Models of Christianity

Fall

An interdisciplinary, team-taught introduction to Religious Studies with three main components: an introduction to the academic study of religion (both Christian and non-Christian), a historical survey of Christianity, and a study of some important issues in contemporary Christian churches. "Models" refers to the great diversity in the types of Christianity studied in the course, both in history and in today's world.

Four credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

- 210 Introduction to the Old Testament** *Fall*
 The religious literature of ancient Israel, studied against the background of history, archaeology and literary analysis. Theological insights of God, the human person, and the human community in history are emphasized.
Prerequisites: a 100 level course in Religious Studies and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.
- 212 Who was Jesus? (Christology)** *Not offered in 1992-93*
 The claims of Jesus before the Resurrection, in his actions, words and titles such as Messiah and Son of God; what the early New Testament church said about Jesus after the Resurrection; what the early Christian Fathers said about him; what some modern theologians say. This course gives students the opportunity to deepen knowledge of the New Testament, especially the Gospels, after they have taken the introductory survey.
Prerequisites: Religious Studies 110 or 215 or other New Testament course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.
- 213 Johannine Christianity** *Not offered in 1992-93*
 Explores in depth the Johannine writings of the New Testament (Gospel of John and Epistles of John), the background of their thought within Judaism and the Greek world, the subsequent history of their ideas in the 2nd and 3rd centuries A.D., and the controversy in the early church over the interpretation of the Gospel of John.
Prerequisites: A 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.
- 214 Saint Paul** *Spring*
 Examines the life of Paul, his letters and his theology. The course is open not only to students who have already had a New Testament course, but also those who have not yet taken a course in Scripture.
Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.
- 215 Matthew, Mark, Luke, John** *Fall*
 A study of the four Gospels of the New Testament, with one of the Gospels studied in particular detail. For students who have taken the New Testament survey (RS110), this course offers the opportunity for a deeper study of the Gospels. The course is also designed for students who have not yet taken a course in Scripture.
Prerequisites: a 100-level Religious Studies course and sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

- 216 Early Christianity** *Spring*
A historical study of early Christianity from its beginnings as an obscure apocalyptic sect within Judaism (1st century A.D.) to its legitimation as the religion of the Roman emperor under Constantine (4th century A.D.). This course will explore central aspects of the Church's social and political development in the Greco-Roman world, as well as the historical development of Christian doctrines.
Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.
- 217 Medieval Christianity** *Spring*
A historical inquiry into the society, pieties, and theologies of medieval Christendom, with special emphasis on the origins of many Roman Catholic doctrines, practices, attitudes, and modes of thought.
Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Religious Studies 216 recommended. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.
- 218 The Church** *Not offered in 1992-93*
The nature and mission of the Church as understood by Vatican Council II and representative modern theologians and as a major issue of contemporary ecumenical dialogue.
Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.
- 220 Grace and the Human Condition** *Not offered in 1992-93*
A study of the Christian understanding of the human condition and God's grace; human nature created, fallen and transformed; the self, society, and historical drama; images of God and images of the human person.
Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.
- 222 Symbol and Sacrament** *Not offered in 1992-93*
A study of the nature of Christian ritual in terms of its foundations in human experience, primitive religious symbolism, the Incarnation, and the sacramental nature of the Church.
Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.
- 223 Christian Marriage** *Fall and Spring*
A theological investigation of marriage as a secular and sacramental reality, based on an examination of marriage in Scripture and in the history of Christian thought and practice.
Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

224 Theology of God **Not offered in 1992-93**

A systematic study of the Christian doctrine of God. Topics may include God's attributes and triune nature, influence on the world and responses God evokes from people. Ancient and modern authors will be read.

Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

226 Work, Capital and God **Not offered in 1992-93**

A study of the meaning of work and its relationship to capital in the light of the Christian faith and various socio-economic systems.

Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

228 Christian Bioethics **Not offered in 1992-93**

A consideration of selected topics in the field of contemporary medical-moral problems, this course will focus on five major areas of bioethical concern: genetics, abortion, euthanasia, human experimentation, and the allocation of scarce resources. The religious and moral aspects of these problems will be explored, with an emphasis upon the Christian perspective.

Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

230 Political Theology **Spring**

A study of contemporary critical reflection on the meaning, truth and social relevance of Christian faith. The focus will be on the major work of three or four selected theologians, e.g., Schillebeeckx, Metz, Gutierrez.

Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

234 Christian Ethics **Fall**

Christian character and conduct: what does it mean to be a Christian, to live in Jesus Christ? This course will examine underlying themes of Christian ethics: beliefs and behavior, sin and grace, transformation and fulfillment, freedom and responsibility, conscience and authority, virtues and vices, love and justice. Various contemporary moral issues will be considered in light of these themes.

Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

236 Christian Social Ethics **Fall and Spring**

An examination of the interactions of Christianity with various social systems, resources of Christianity for social justice, critical and constructive views of Christianity in the modern world.

Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

238 Modern Catholic Thought

Fall

A study of some central theological issues including church-state relations, development of doctrine, authority in the church, and biblical criticism, as these issues have developed in the modern era.

Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

240 Modern Protestant Thought

Spring

A study of the historical development of modern Protestant theology. The course will emphasize the key theological turns of Protestant thinking during this period. Open to Honors Program students only in 1992-93

Prerequisites: a 100 level Religious Studies course and at least sophomore standing. Three credits. RELIGIOUS LIBERAL STUDIES REQUIREMENT.

317 Introduction to Judaism

Fall

A study of the basic elements of the ancient, medieval, and modern periods of Jewish life and experience, as well as an examination of the way the Jewish tradition has functioned in the past and how it is perceived today.

Three credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

319 Introduction to Islam

Spring

An introduction to the beliefs, values, religious observances, history and culture of the world's second largest religion, its place in contemporary Muslim societies and the world, and the status of the contemporary Christian-Muslim encounter.

Prerequisites: a 100 level and a 200 level Religious Studies course. Three credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

**321 Judaism in the Greco-Roman World
(see Classics 321)**

Spring

An advanced study of the history and religion of the Jews during a crucial period of their history, 538 B.C.E. to 200 C.E. Topics include the interplay between Greek philosophy and Jewish thought, studies in the Dead Sea Scrolls, the history of Jewish wars against the Greeks and Romans, early Christianity as a Jewish sect, and the rise of Rabbinic Judaism.

Prerequisites: At least one of the following courses or permission of the instructor: Religious Studies 110, 210 or 317; Classics/History 301, 303, 305 or 307; Humanities 101; Philosophy 301. Four credits.

323 Hindu Religious Thought

Fall

An introduction to Hinduism, this course will explore the religious and philosophical foundations of Indian thought. Hindu traditions and spirituality will also be examined. Emphasis will be given to the central role of the Vedanta and Sankya Yoga schools of thought.

Three credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

325 Buddhist Religious Thought

Spring

An introduction to Buddhism, this course will explore the religious and philosophical foundations of Hinayana and Mahayana. Buddhist traditions and spirituality will also

be examined. Emphasis will be given to the central role of the Madhyamika and Zen schools of thought.

Three credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

331 American Catholicism *Not offered in 1992-93*
(See History 331)

A history of the Roman Catholic community in the United States, from its beginnings in colonial America to the present. Both primary and secondary sources will be read. Focus will be on those events and movements which have shaped the present situation of the Church.

Prerequisites: a 100 level and a 200 level Religious Studies course. Three credits.
HISTORICAL LIBERAL STUDIES REQUIREMENT.

333 Feminist Theology *Not offered in 1992-93*

Introduces the student to the issues, methodologies, and conclusions of feminist theology as these have evolved during the last 20 years. The course will critically examine the ecclesial, theological, and doctrinal import and validity of these studies.

Prerequisites: a 100 level and a 200 level Religious Studies course. Three credits.

334 Faith and Imagination *Not offered in 1992-93*

Considers the role of mythic imagination in religious faith, from perspectives of literary criticism, comparative literature, and theology. Topics may include: Christian analogues to themes in primitive mythology, the religious vision in the "myths" of J.R.R. Tolkien and C.S. Lewis, literature reflecting the situation of faith in a culture, and the role of metaphor and story in shaping Christian faith experience.

Prerequisites: a 100 level and a 200 level Religious Studies course. Three credits.
INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

335 The Liturgical Arts in the Contemporary Church *Spring*

Examines the role of the arts, including music, drama, painting, sculpture, and architecture, in the expression and celebration of Christian faith today, against a background of liturgical documents, principles of aesthetics, the criteria of the artistic genres, and the traditional relationship of the arts and religious faith in Western culture.

Prerequisites: a 100 level and a 200 level Religious Studies course. Three credits.
FINE ARTS AND INTERDISCIPLINARY LIBERAL STUDIES REQUIREMENT.

339 Celtic Christianity *Not offered in 1992-93*

A survey on the distinctive expression of Christianity that first developed and flourished on the western fringes of Europe and subsequently influenced the development of Christianity on the continent. The course will focus on the theology, spirituality, and practices developed by Celtic Christians from the 5th to the 15th century to inculcate their understanding of the Christian faith.

Prerequisites: a 100 level and a 200 level Religious Studies course. Three credits.

409 Sociology of Religion
(See Sociology 409)

Not offered in 1992-93

An analysis of the function of religion in society according to the interpretation of major sociological theorists. Special emphasis will be placed on the contemporary crisis in belief.

Three credits.

410 Religious Studies Seminar

Not offered in 1992-93

Directed reading and discussion of a selected topic in Christian studies; methodologies for research in the field of Religious Studies; presentation and critique of student research projects.

Open only to Religious Studies majors and minors with junior or senior standing. Four credits.

411 Religion in American Life
(See Sociology 411)

Not offered in 1992-93

A historical and sociological analysis of American religion and its influence on our culture.

Three credits.

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

DR. FREDERICK J. MAHER; CHAIR; BOLDUC, DETERRA, GARRETT.

The disciplines of sociology and anthropology provide such knowledge of social phenomena as can be obtained by the use of empirical methods. While it is hardly the only means of approaching and understanding these matters, the analytical perspectives do provide insights into the nature of the distribution of power and wealth; the sources of group conflict and social turmoil; the basis of social cohesion; the factors contributing to social change; and the emergence of social issues generally.

It is not the goal of sociology, or anthropology, as undergraduate disciplines, to prepare students for a specific occupation. There are precious few occupations where people are hired because they had an undergraduate major in Sociology or Anthropology. When there is an interest in hiring Sociologists or Anthropologists, persons with graduate degrees are sought. Naturally, a major in the department is a suitable preparation for graduate work in sociology, anthropology and several related fields. At the same time it should be recognized that an undergraduate major in the department is by no means a prerequisite for obtaining admission to graduate programs in Sociology or Anthropology.

In keeping with the liberal arts tradition, the department aims to provide an awareness of the complexity of social life, a tolerance of diversity, and an impatience with intellectual complacency. A familiarity with this analytical perspective can be an asset in any of the careers which are usually entered by graduates of liberal arts colleges.

REQUIRED FOR THE SOCIOLOGY AND ANTHROPOLOGY MAJOR:

SO101 Introduction to Sociology (3 credits) **OR**

- SO109 Introductory Anthropology (3 credits)
SO203 Research Methods (4 credits)
SO301 Foundations of Sociological Theory (4 credits)
SO310 Directed Readings in Sociology (4 credits)
SO410 Senior Research (4 credits)

AND CHOOSE an additional 15 credits in Sociology and Anthropology.

Department majors are strongly urged to complete at least the 210 level of a modern language. Students planning to do graduate work should bear in mind that familiarity with a foreign language is usually required. In addition, majors are advised to elect courses in psychology, history, economics and political science.

REQUIRED FOR THE MINOR IN SOCIOLOGY AND ANTHROPOLOGY:

- SO101 Introduction to Sociology (3 credits) **OR**
 SO109 Introductory Anthropology (3 credits)
 SO203 Research Methods (4 credits)
 SO301 Foundations of Sociological Theory (4 credits)

AND CHOOSE an additional 7 credits in Sociology and Anthropology.

101 **Introductory Sociology**

Fall and Spring

An introduction to sociological analysis. It will include an examination of population, social stratification, community organization, economic, political and religious institutions.

Three credits. SOCIAL SCIENCE LIBERAL STUDIES REQUIREMENT.

109 **Introductory Anthropology**

Fall and Spring

An introduction to the principles and processes of cultural anthropology. This course not only provides students with basic insights into facts and theories, but most importantly, the anthropological attitude of a commitment to understanding and tolerating other cultural traditions.

Three credits. SOCIAL SCIENCE LIBERAL STUDIES REQUIREMENT.

203 Research Methods

Spring

Provides an awareness of the techniques that are used to gather the data on which sociological generalizations rest. This course is intended primarily for sociology majors, but it is not reserved for them.

Four credits.

205 Social Problems

Fall

An investigation of the complex nature of many contemporary social issues.

Three credits. SOCIAL SCIENCE LIBERAL STUDIES REQUIREMENT.

301 Foundations of Sociological Theories

Fall

A survey of the classical European and contemporary American theorists in the development of sociology.

Four credits.

303 The Family

Spring

The family as a social institution; its internal organization and formation in the past and in the present. Special emphasis will be placed on problems affecting the American family.

Three credits.

305 Population Analysis

Fall

Examines population size, distribution, and composition, and the relations between these factors and social and economic conditions. Particular attention will be paid to fertility and the underdeveloped areas of the world.

Four credits.

307 Sociology of Education

Not offered in 1992-93

An exploration of various aspects of the educational enterprise. Recent research and writings will be emphasized. Professionalism, the testing movement, societal inequalities, educational opportunities and financing controversies will be among the subjects considered.

Three credits.

310 Directed Reading in Sociology

Fall and Spring

Acquaints sociology majors with the leading books and the recognized authorities in the field.

Reserved for sociology majors. Four credits.

317 Social Inequality

Fall

An examination of inequalities in wealth, power, and privilege in the United States and other nations.

Four credits.

319 Sociology of Politics

Spring

An analysis of the social bases of politics. Sources of cleavage and of cohesion, political mobilization and social movements, political symbolism and ideologies will be considered.

Three credits.

325 Symbolic Interaction

Spring

An examination of the importance of symbols in social life.

Four credits.

327 Anthropological Perspectives on Gender

Spring

Cross-cultural data and theory of gender as a fundamental aspect of social relations of power; individual and collective identity; the fabric of meaning and value in society.

Four credits.

401 Cultures of East Asia

Fall

The ethnography of China with reference to comparative data from Japan; family and kinship; economic, political and religious systems; recent developments and

anthropological fieldwork on China and Japan in the international community of Saint Michael's College.

Prerequisite: Sociology 101 or 109. Four credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

403 Criminology

Not offered in 1992-93

An examination of criminal and deviant behavior in society and the response of society to this behavior.

Three credits.

405 Cultures of Southeast Asia

Not offered in 1992-93

The ethnography of Southeast Asia from hunting and gathering groups to high civilizations; kinship, economic, political and religious systems; recent developments.

Prerequisite: Sociology 101 or 109. Three credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

407 American Society

Not offered in 1992-93

An exploration of various writings that illuminate the basic nature of the society.

Three credits.

**409 Sociology of Religion
 (See Religious Studies 409)**

Not offered in 1992-93

An analysis of the function of religion in society according to the interpretation of major sociological theorists. Special emphasis will be placed on the contemporary crisis in belief.

Three credits.

410 Senior Research

Fall

Students will choose a project that draws upon their interests from earlier courses. Utilizing the library resources students will develop and write a scholarly essay.

Reserved for Sociology majors. Four credits.

**411 Religion in American Life
 (See Religious Studies 411)**

Not offered in 1992-93

A historical and sociological analysis of American religion and its influence on our culture.

Three credits.

413 Applied Anthropology: Issues in Development

Spring

Anthropological approaches to social change and economic development in the Third World. The course examines strategies for intervention in light of local perceptions of need.

Prerequisite: Sociology 101 or 109. Four credits. GLOBAL PERSPECTIVES LIBERAL STUDIES REQUIREMENT.

GRADUATE PROGRAMS

TEACHING ENGLISH AS A SECOND LANGUAGE (TESL)

Saint Michael's offers three programs in Teaching English as a Second Language: A Master of Arts in Teaching English as a Second Language, the Advanced TESL Certificate Program, and a six-week Summer Institute in TESL. The TESL Programs are designed for prospective or experienced teachers of English as a Second Language. For prospective TESL teachers, the Programs provide foundations in TESL as well as a rounded view of the field; and for teachers who have taught ESL, the offerings furnish an opportunity for upgrading skills and for growth and enrichment of education and cultural backgrounds.

EDUCATION (M.ED. AND C.A.G.S.)

The graduate programs in education at Saint Michael's College seek to fulfill the mission of the College through an integrated study of the values, knowledge, and skills of the teaching/learning process. They emphasize the role of an educator as a reflective practitioner who possesses the *values* of caring and commitment, and is *knowledgeable* about learners, strategies and communication, and is skilled in management, instructional strategies and communication. It is the goal of the graduate programs to prepare educators to make sound decisions in order to deal with the complexities of classrooms and school life.

Saint Michael's graduate education programs include a Master of Education degree (M.Ed.) and a Certificate of Advanced Graduate Study (C.A.G.S.). All programs within education are designed for educators interested in teaching or administration at various levels of public and private education. In planning their programs, students may choose to select courses in a sequence that responds to their particular needs or interests, or they may choose to follow a concentration in curriculum, reading, special education, working with severely emotionally disturbed children, administration, or computer education. Within the graduate program, it is possible to follow the Vermont Department of Education approved program and obtain Vermont certification as an Elementary Teacher, Reading Teacher, School Principal, Consulting Teacher/Learning Specialist, or Resource Room Teacher. Approved programs for secondary teachers include: Art, Computer Science, English, Foreign Languages, Mathematics, Science, and Social Studies.

The M.Ed. Program requires 36 credits of course work. C.A.G.S. (Certificate of Advanced Graduate Study) requires 30 credits beyond the Master's degree.

CLINICAL PSYCHOLOGY (M.A.)

The Graduate Program in Clinical Psychology at Saint Michael's College is a 60-credit degree program that can be completed on a full- or part-time basis. Our objective is to provide a graduate education in professional psychology that balances theory, research and practice, and prepares students for entry level professional positions in community agencies, clinics, schools and hospitals.

The program is not identified with any particular *school* of psychology, and the faculty offer a diversity of orientations and interest within the framework of the curriculum. While not identified with any specific theory, the program is committed to the highest standards of academic excellence, and insists that its students develop a broad-based, in-depth understanding of the conflicting theories, methodologies, and

research traditions within clinical psychology. The program attempts to provide an educational milieu in which the free exchange of ideas is encouraged and the critical analysis of viewpoints supported.

It is our belief that this approach to graduate education best serves students as they embark on what may be a lifetime career path. The master's program must lay the foundation for later professional growth and education, whether on the job or in formal doctoral study.

MANAGEMENT AND ADMINISTRATION (M.S.A. AND C.A.M.S.)

This graduate degree program is designed to offer individuals the opportunity to develop those knowledge and skill areas that are required to fulfill administrative responsibilities in government, industry, education and public service. The premise of this program is that the fundamental skills of administration and management are highly interchangeable between the public and private sectors. Moreover, the interdependence of government and business makes the understanding of these two related endeavors essential. Specifically designed for working professionals, classes are scheduled evenings and weekends and in intensive summer sessions. Classes are currently being offered in Rutland, Vermont, also. Students can design a personalized program of study reflecting individual career aspirations and interests. A practical and applied approach is employed throughout the program.

For further information about any of these programs write or call: Office of Graduate Studies, Saint Michael's College, Winooski Park, Colchester, Vermont 05439, telephone 802-654-2100.

THEOLOGY AND PASTORAL MINISTRY (M.A.)

This program started in 1962 and has a long and successful record. Courses are divided into core, major and elective groups. The core is basically theological: Scripture, Systematics, Moral Theology and Liturgy. A wide choice in courses is allowed. The concentrations are: Religious Education, Pastoral Ministry and Spirituality, Scripture, and Theology-Systematics. There is a fairly wide choice of electives to allow students to choose their courses to fit their needs. Two certificates are also offered: A Graduate Certificate (pre-degree) and a Certificate of Advanced Specialization (post-degree). Specifics are spelled out in a special brochure which is available on request.

The **Graduate Certificate** is designed for students whose employment requires that they get some background but not necessarily a degree. Also for students who do not wish a degree or for students who only want to become more current in the areas offered in this program.

The concentration in **Religious Education** is designed to prepare students for teaching religion at the elementary and secondary school level, for those involved in adult education, for coordinators or directors of religious education, and for those seeking renewal or some continuing education and formation.

The concentration in **Pastoral Ministry and Spirituality** is designed particularly for those in the ministerial areas such as counseling, youth work, adult work, work in hospitals, work with the sick, retreats, parish ministry, etc.

The concentration in **Scripture** is appropriate for those students who wish to deepen their background in this area, for those who teach in this area, for those who wish to take this approach to spirituality and for several other areas of interest.

The concentration in **Theology-Systematics** is designed for the same groups as Religious Education but especially for those involved in adult education, the training of teachers, the design of programs and for those contemplating doctoral studies.

The **Certificate of Advanced Specialization (C.A.S.)** is a post-degree certificate. It provides advanced training beyond the Master's level. It is designed for those students who have graduated at least three years previously and wish to update their skills, their fields, or acquire new ones.

Courses are available in Summer Session only. They may be taken for a degree, as special courses (credit but no degree desired), for audit or for one of the certificates.

For further information about this program write or call: Office of Graduate Theology and Pastoral Ministry, Saint Michael's College, Winooski Park, Colchester, Vermont 05439, telephone 802-654-2579.

GRADUATE PROGRAM FEES

Information regarding graduate fees may be obtained by contacting the Office of Graduate Studies, Saint Michael's College, Winooski Park, Colchester, Vermont 05439, telephone 802-654-2581.

CONTINUING EDUCATION

The Continuing Education Program at Saint Michael's utilizes the resources of the College to meet specific personal and professional enrichment needs of various clientele. The programs include workshops, seminars, certificate programs, intensive courses, and longer courses. Programs vary in length from a few hours to several months. Faculty include our full-time faculty as well as carefully chosen persons with specific expertise from the community. Programs are offered on-campus in business sites, hotels, resorts, or conference centers.

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Assistant Professor of Mathematics
- SLAYBAUGH, Douglas, Ph.D.
(Cornell University)
Assistant Professor of History
- SMITH, Lorrie, Ph.D.
(Brown University)
Assistant Professor of English
- SPARKS, Warren, A.M.
(Boston University)
Professor of Mathematics (em.)
- STAPP, Yvonne, Ph.D.
(Georgetown University)
Assistant Professor of English as a Second Language
- STOCKTON, D. Alan, Ph.D.
(University of Massachusetts)
Associate Professor of Education
- SUAREZ, Maj. Luis, M.D.
(Air Force Institute of Technology/Ohio)
Assistant Professor of Aerospace Studies
- SULLIVAN, T. Donald, S.S.E., Ph.D.
(Fordham University)
Professor of Biology (em.)
- SUMMERFIELD, Susan W.,
Doctor of Musical Arts
(Stanford University)
Professor of Fine Arts
- TALLEY, Lt. Col. David H., M. Ed.
(Pepperdine University)
Professor of Aerospace Studies
- THAYER, Alice M., M.A.T.
(Saint Michael's College)
Associate Professor of English as a Second Language
- TOOMEY, M. Fran, Ph.D.
(University of Vermont)
Associate Professor of Education
- TORTOLANO, William, Mus.D.
(University of Montreal)
Professor of Fine Arts
- TRONO, John A., M.S.
(Purdue University)
Associate Professor of Computer Science
- TRUMBOWER, Jeffrey, Ph.D.
(University of Chicago)
Assistant Professor of Religious Studies
- TUMULTY, Peter, Ph.D.
(University of Notre Dame)
Chair and Professor of Philosophy
- VANDERWEEL, Richard L., S.S.E., Ph.D.
(Laval University)
Professor of Philosophy
- VAN HOUTEN, John C., Ph.D.
(University of California, Santa Barbara)
Professor of Chemistry
- VERSTEEG, Jennie, Ph.D.
(Clark University)
Chair and Associate Professor of Economics
- VOIGT, Dennis W., B.S., C.P.A.
(University of Vermont)
Assistant Professor of Business Administration
- WALKER, Norman E., M.B.A.
(New York University)
Associate Professor of Business Administration
- WANG, Ke-Wen, Ph.D.
(Stanford University)
Assistant Professor of History
- WEBSTER, Colleen, Ph.D.
(Boston College)
Assistant Professor of Religious Studies
- WILSON, William E., Ph.D.
(Fletcher School, Tufts University)
Associate Professor of Political Science
- YORKEY, Richard C., Ed.D.
(University of Michigan)
Professor of English as a Second Language (em.)
- YOSHIMURA, Marta, Ph.D.
(University of Arizona)
Assistant Professor of Modern Languages
- ZENO, Carl A., Ph.D.
(Marquette University)
Associate Professor of Philosophy

LECTURERS/INSTRUCTORS

Associated with Saint Michael's College for three years or longer.

ANISFIELD, Nancy
English

BAUER-RAMAZANI, Christine
English as a Second Language

BLODGETT, Sheena
English as a Second Language

BURNHAM, Geoffrey
Fine Arts

COCHRAN, Jennifer
English as a Second Language

CULLINS, Kelly
English as a Second Language

DELANTY, Greg
English

DONOGHUE, Michael
Journalism

EARLE, Ann
Humanities

ELLENBOGEN, David
Mathematics

ERLY, Peter
Business

FERLAND, Suzanne
Fine Arts

FRY, Leslie
Fine Arts

FURUKAWA, Hideko
Modern Languages

HANDELSMAN, Matthew
English as a Second Language

HEIMS, Neil
English

HOWLETT, Polly
English as a Second Language

KASTEN, Timothy
Mathematics

KERR, Mary
Journalism

KLING, Amy
Biology

LANDERS, David
Psychology

MARQUESS, Will
English

MARSH-MYERS, Helen
Biology

MARTIN, Denise
Biology

MONSARRAT, Nick
Journalism

ROGERSON, David
Business

SARGENT, Barbara
English as a Second Language

SLAYTON, Tom
Journalism

WALL, Rabbi Max
Religious Studies

WARD, Sr. Miriam
Religious Studies

WARGO, William
Business

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1993—1994 ACADEMIC CALENDAR

FALL SEMESTER 1993

August 28, 29, 30
 New Student Orientation
August 30
 Upperclass Registration
August 31
 Classes for all
September 5
 Opening Mass
September 6
 Labor Day
 Classes as usual
September 8
 Last day for course changes
September 29
 Academic Convocation
 Classes cancelled between
 12:50 and 5:00 p.m.
October 11-12
 Holiday
October 15
 Last day for making up I grades
 from Summer Session and
 Spring semester
 Quarterly reports due
October 27
 Last day for withdrawing from
 courses without penalty.
November 24
 Thanksgiving recess begins
 at 11:35 a.m.
November 29
 Classes resume
December 10
 Last day of classes
December 11-12
 Study Days
December 13-18
 Final Exams

SPRING SEMESTER 1994

January 9
 Registration
January 10
 Classes for all
January 18
 Last day for course changes
February 18
 Last day for making up I grades
 from Fall semester
 Quarterly reports due
 Winter recess begins after last class
February 28
 Classes resume
March 4
 Last day for withdrawing from
 a course without penalty
March 31
 Easter recess begins after last class
April 5
 Classes resume
May 2
 Last day of classes
May 3
 Study Day
May 4-7
 Final Exams
May 8
 Study Day
May 9-10
 Final Exams
May 14
 Baccalaureate Mass
May 15
 Commencement



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